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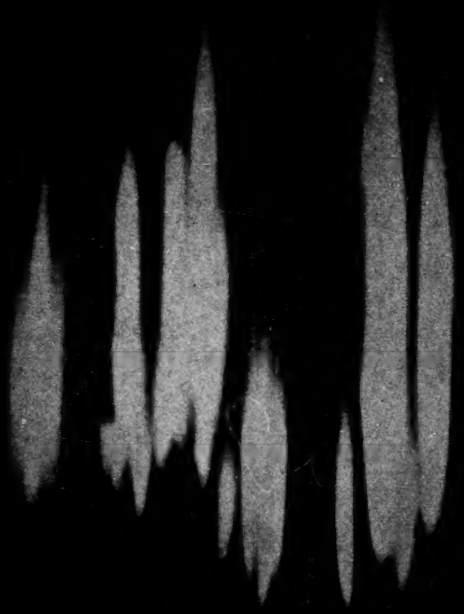


ENERGY OPERATIONS & EQUIPMENT FORECAST

Rotary Rigs Reflect Response To Decontrol

by Rich McNally, *Associate Editor*
PETROLEUM ENGINEER International

Keeping up with the '80s will be no problem for America's oil and gas well drillers. But will the '80s be able to keep up with them?

By setting a new record for completions last year, U.S. drillers began the century's penultimate decade in high gear, and are showing no signs of slowing down as higher prices for domestic crude oil and for some categories of natural gas encourage close to 9000 oil and gas operators to employ the services of more than 700 contract drillers.

Last year, U.S. drilling contractors put down 189 million feet of hole to complete 62,462 wells. This represented a 19% increase over 1979's footage and a 21% increase over the earlier year's completion total.

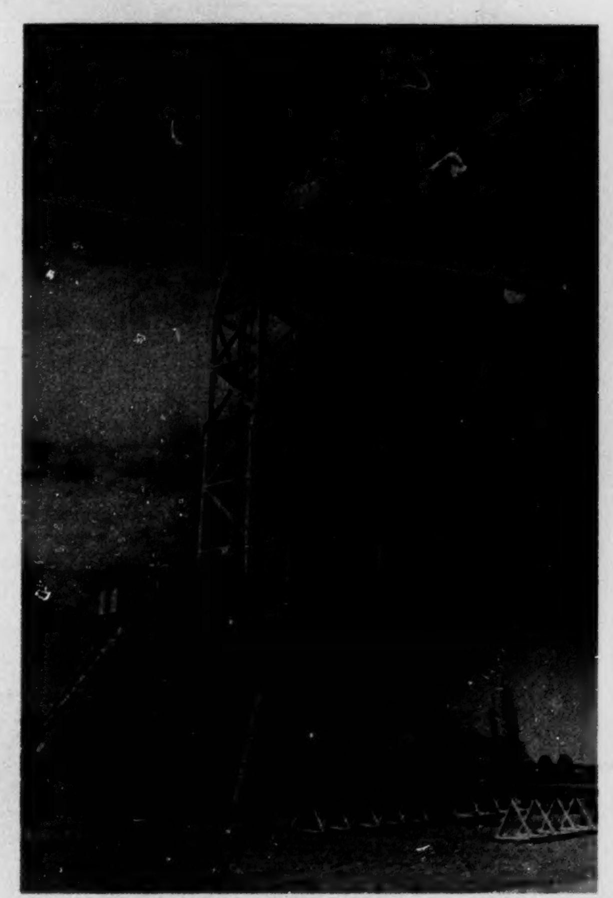
As impressive as these figures are, however, they pale in comparison to cost data. Petroleum Information Corp. (Denver) puts 1980 drilling costs at $19.5 billion, a 41% increase over the $13.8 billion spent during 1979. And 1981 budgets are even higher, with 70,000 to 74,000 wells predicted for this year. This would bring drilling expenditures up to the $30 billion level for the year and continue a trend that could very well see a trillion dollars spent to drill and complete wells in the U.S. during the decade of the '80s.

Decontrol of oil prices, therefore, is achieving just about what the industry said it would. Higher prices and the promise of improved returns for investors have extended and expanded the search for new energy. The industry is not only going farther offshore, it also has begun exploring the complex structures of the Appalachian Basin as well as the Western Overthrust Belt. And exploration is going deeper in the conventional basins of Texas, Oklahoma, California, and Louisiana.

Although decontrol was a long time in coming, the delay provided the oilfield supply industry with plenty of time in which to gear up for the current boom. As a result, lead times associated with some of the major items of oilfield equipment are not regarded as serious enough to constrain drilling activity.

Perhaps the most critical constraints during the mini-booms of the '70s were shortages of oil country tubular goods, but indications are that domestic shipments plus imports will be sufficient to meet requirements for at least the first half of the '80s. Lone Star Steel Co. looks for drillers to consume 7.5 million tons of tubulars in 1985 while drilling 525 million feet of hole with 5740 rigs. Lone Star is one of a number of steel companies that have announced expansion plans during the past year (others include Armco and U.S. Steel), which should provide the necessary additional tubular capacity for the second half of the decade.

Shortages of qualified personnel were another constraint on drilling during the '70s, but it is not something that the industry hasn't been able to overcome. At one point early in the decade, the U.S. active rig count actually dropped below 1000, but today the industry is adding that many rigs each year. And it is coming up with the people to man them. Where they are coming from is anybody's guess, but the word we get from Wyoming is that the drilling boom in that state's portion of the Overthrust Belt is accompanied by a shortage of cowboys, who apparently are trading in their Stetsons and lassos for hard hats and spinning chains.

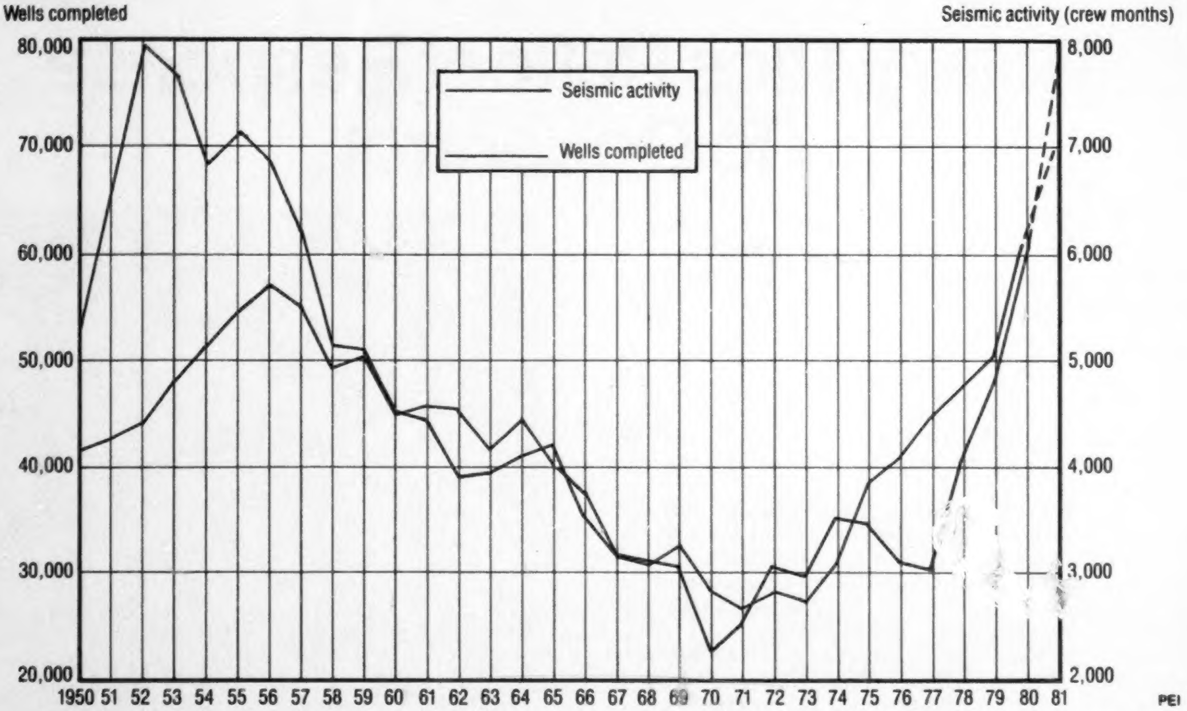


Rowan Co.'s Rig 5 drilling the year's deepest well, GHK Co.'s 26,500-ft Harrell No. 1 and 2, in western Oklahoma.

Drilling contractors, meanwhile, are stepping up their on-the-job training efforts, and there is growing interest in training simulators that will do the same job without sacrificing valuable rig time.

Although today's rig-building boom could result in a certain amount of overcapacity within the next few years, there appears to be little danger of overproduction of such consumable items as drilling bits, electronic logs, and drilling muds.

The contract research and development firm Gorham International Inc. of Gorham, Me., says that the future demand for mud minerals is "very bullish because drilling rates are up sharply, and because every well drilled requires 300 to 500



Close correlation between drilling and seismic activity is illustrated in this graph which shows both activities at their highest levels in 30 years.

tons of drilling fluid, regardless of whether that well is dry or becomes a gusher."

Rotary drilling is here to stay, for the foreseeable future at least, but a number of interesting bit developments are expected to have a definite impact on the drilling scene before long. Mud motors, for example, have been a staple in directional drilling for years, but motors available today are powerful enough for intensive long-term use, and there is growing interest in their ability to drill straight through tilted formations.

Another bit development that is attracting the attention of drilling contractors around the country is the artificial diamond blanks that offer both the hardness and abrasion-resistance of diamond and the impact-resistance of tungsten carbide. Bits with the Stratapax teeth are an added factor in the renewed popularity of mud motors for straight hole drilling because they require less weight in the drill string and less power on the bit.

So, things seem to be going the industry's way for a change. The U.S. drilling rig fleet now numbers more then 4000, with well over 3800 actively at work at mid-year. If the federal government chooses to continue lifting its heavy hand–repeal the "windfall profits" tax, for example, and throw out complicated and inconsistent restrictions on natural gas pricing – most industry authorities agree that the drilling effort will continue to surge.

With market forces in command, the industry would have the incentive to drill 100,000 wells each year for 40 years, according to George P. Mitchell, president of Mitchell Energy & Development Corp. "And when we're drilling at the rate of 100,000–an amount the nation's geology can support," Mitchell says, "OPEC's clout will be softened beyond recognition. In the year just ended, with a record number of wells, we stopped the downward trend in oil production and almost did it in gas production. In the present year (1981), I believe the industry will drill 10,000 more wells than in 1980. And when we reach an annual rate of 85,000 wells a year, we'll find as much natural gas as we're using."

Another call for removal of restraints on energy production comes from Charles J. DiBona, president of the American Petroleum Institute. He says, "For the country to take full advantage of the stimulus that market forces are giving to drilling, there must be some changes in government policy.

"To cut imports in half by 1990," he says, "there is need for more energy from federal lands, a better balance between environmental progress and resource development, and consistent, timely government decisions on nuclear regulatory questions."

The leading indicator of future drilling activity, of course, is the number of seismic crews active at any one time. Here, too, the outlook can only be described as bullish. Word just in from the Society of Exploration Geophysicists reflects a dramatic increase in the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and offshore. The total increased from 610 in March to 645 during April, the highest total since the third quarter of 1953. This represents a 30% increase over April 1980, and 79% over April 1979.

All signals are "go" for drilling in the '80s – even without repeal of the "windfall profits" tax, because institutional investors from outside the industry stand ready to pick up the slack by investing in oil and gas exploration as a means of keeping pace with inflation.

The petroleum industry is ready, willing, and able to fuel the U.S. economy through what promises to be a turbulent decade. The only question is whether the '80s will come through with the proper climate for the necessary drilling effort. An effort which will not only be expensive, but which will set new standards for equipment, technology, and people. ■

Pipeline Construction Activity Rated High

by Dean Hale, *Editor, PIPELINE & GAS JOURNAL*

At mid-1981 over 81,000 miles of crude oil, refined products, natural gas, and slurry pipelines are planned or under construction around the world. More than $12.3 billion will be spent during the year to install an estimated 23,990 miles of cross-country pipelines of all types.

In the United States, that includes 10,440 miles of liquids and gas pipelines costing more than $2.52 billion. Outside the U.S., some 13,550 miles of new pipelines will be installed at a cost exceeding $9.7 billion.

The trend for the remaining two decades of this century is for more and more–more pipelines of all kinds to transport an increasing number of commodities. Those commodities include the perennial favorites – crude oil, refined products, natural gas liquids, natural gas, and coal slurries–plus chemicals of all types, ammonia, industrial gases such as oxygen and nitrogen, carbon dioxide (to be used for enhanced recovery of oil), solids slurries including ores and other non-soluble minerals, and even such items as wood chips.

In a major study of U.S. and Canadian pipeline requirements to the turn of the century, Bechtel's Peter G. Behr and Steven Davenport *(see Pipeline & Gas Journal, June 1981)* estimate a minimum of 33 major inter-regional pipeline projects, involving 50,300 miles, will be needed by the year 2000. This projection includes 8 oil pipeline projects totalling 8900 miles; 11 gas pipeline projects totalling 26,000 miles, and 14 slurry pipeline projects totalling 15,400 miles.

PIPELINE & GAS JOURNAL estimates that some 200,000 total miles of new cross-country pipelines will be needed during the 1981 to 2000 period–including major interregional lines, intra-regional lines, loops on existing systems, additional offshore pipelines, and gathering system lines – an average of 10,000 miles per year.

"Super projects" such as the Alaska Highway Gas Pipeline Project will continue to capture the spotlight, but the bread-and-butter pipeline activity will keep the manufacturers of pipe, valves, fittings, pumps, compressors, coatings, and construction machinery in business and help pay the bills.

Internationally, pipeline activity continues to grind away at a steady pace with many new, moderately sized projects announced, plus a few undertakings somewhat more grandiose. Nigeria, frustrated by an inability to get a long-planned LNG export plant and terminal built or financed, now proposes to build a 2500-mile, 40 to 48-in. gas pipeline across western Africa from the Bonny area to the Mediterranean, with branches connecting to either (or both) the Trans-Mediterranean Gas Pipeline and the SEGAMO project proposed to Spain and France (involving a very deep line across the Mediterranean).

In West Germany, two liquid lines are in the news — an 81-mile, 22-in. crude oil line from Wilhelmshaven to Hamburg, proposed by Esso AG and Deutsche BP, and a 186-mile LPG line from Wilhelmshaven to the Ruhr, planned by Mobil Oil AG and Industrieverwaltangs GmbH.

Crude oil and products lines occupy headlines elsewhere. In Panama, work is underway and pipe ordered for a 78-mile, 36-in. line across the Isthmus that will permit bypassing of the crowded Panama Canal. In Colombia, ECOPETROL is planning a 186-mile, $47 million crude line. In Australia, a 240-mile crude oil and condensate line is now planned from Moomba in the Cooper Basin to Stoney Point in South Australia, site of a new refinery. New Zealand is the site for a $55 million, 101-mile products line from Marsden Point to Auckland.

Argentina, where 1240 miles of 30-in. and smaller lines are now under construction, is planning another 1000 miles of 30-in. and larger system to feed natural gas to Sao Paulo, Brazil, and to several Uruguayan cities as part of a massive export program. The Soviet Oil and Gas Ministry has announced that it will build 31,000 miles of gas pipelines during 1981-1985, most of them in western Siberia; the plan does not include the 2000-mile, $11 billion Yamul Peninsula-to-Europe project currently being studied and promoted.

In the North Sea, work is underway on 44 miles of 24-in. from the West Sole Field to Easington, U.K., and government, British Gas, and private interests continue to debate the merits of a 600-mile major offshore gas gathering system. Success of the gas gathering system would depend, partially, on whether Norway will commit gas from the Statfjord re-

1981 Pipeline Construction

(Estimated Miles Completed During Year)

	U. S.	International	Total
Gas			
Transmission	3610	3177	6787
Field, Gathering, Storage	1850	1950	3800
Total	**5460**	**5127**	**10587**
Crude			
Trunk	412	2860	3272
Gathering	1590	1800	3390
Total	**2002**	**4660**	**6662**
Products			
Refined Products	785	1090	1875
LPG/NGL	1380	1545	2925
Total	**2165**	**2635**	**4800**
Offshore			
Oil	181	518	699
Gas	634	610	1244
Total	**815**	**1128**	**1943**
GRAND TOTAL	**10,442**	**13,550**	**23,992**
Prime Movers (Est. HP Installed)			
Compressor	401,000	720,000	1,121,000
Pump	228,800	183,000	411,800
Total	**629,800**	**903,000**	**1,532,800**

serves. Norway, on the other hand, is carefully studying its options, including building a major gas pipeline link to Ekofisk (with gas then going to Emden via an existing gas pipeline) and a gas pipeline across the Norwegian Trench to the Norwegian mainland. Whatever happens must happen by 1985-86, at which time the reinjection of gas into the Statfjord reservoir will have to be discontinued to prevent damage to the formation.

British Gas currently is completing work on the remainder of its 280-mile, 42-in. Fourth Feeder from St. Fergus *(see May 1981 issue of P&GJ)*. In Italy, crews are working on six major sections of the 48-in. Trans-Mediterranean Gas Pipeline for SNAM and plan to have the line complete to the Rome area by year's end.

In Brazil, work continues on the 280 miles of 12 through 24-in. being installed at Campos Basin. In Mexico, Pemex has 342 miles of major 48-in. gas pipeline underway, and another 2667 miles of various sizes of gas and products lines. In Spain, ENAGAS has announced plans for a 155-mile gas pipeline south of Madrid to Catagena and Marcia and a 150-mile line from Madrid to Burgos. Kuwait has announced plans for some 60 miles of new offshore/onshore gas pipelines.

Victoria Gas & Fuel Corp. of New Zealand has announced plans for 55 miles of 30-in. gas line to be completed by 1983. In Australia, work will get underway in January on the 81-mile, 36-in. pipeline to bring Northwest Shelf gas to shore. Meanwhile, planning and design work continues on the 940-mile 26 or 30-in. pipeline that will take the gas from near Dampier southward to Perth.

Pipeline activity in the Middle East has slowed somewhat, with completion of the Petromin 48-in. crude oil line (800 miles) and the Aramco 747-mile NGL line, both terminating at Yanbu on the Red Sea. In Abu Dhabi, work is nearing completion on ZADCO's 746 miles of 4 to 48-in. Several major gas and NGL lines in Algeria are under construction, with completion dates varying from fall 1981 to late 1982.

Domestically, the "big" project—the Alaska Highway Gas Pipeline—has its "below the border" sections well underway, plus a substantial amount of work in progress in Alberta, British Columbia, and Saskatchewan. The 161-mile western leg (Pacific Gas Transmission) will be complete by late summer and the 823-mile Northern Border Pipeline from Ventura, Iowa to Monchy, Sask. will be ready by year's end. Nova Corp. has 395 miles of 42-in. underway on its eastern leg from Monchy, Sask., to Caroline, Alta.

The big pipeline, now estimated to cost $30 billion, reports progress in obtaining financing. Three major gas producers at Prudhoe Bay-Exxon, ARCO, and Sohio-will have a 30% ownership in the line. Design of the huge gas processing plant at Prudhoe Bay, a major step in getting the line into operation, is well underway by the Parsons Co. of Pasadena, Calif.

Numerous new gas pipeline projects have been announced as exploration and drilling around the nation turn up substantial new reserves. El Paso Natural Gas is building 107 miles of 20-in. and adding 3500 hp that will give it access to considerable reserves in the Anadarko Basin. American Natural is planning a 375-mile, 24-in. "Pathfinder" pipeline from near Cheyenne, Wyo. southeast to Greensburg, Kansas. The Trailblazer pipeline project-797 miles of 30 and 36-in. to move Overthrust Belt gas from the Wyoming-Utah-Colorado area to Midwest markets, remains on tap, as do the Rocky Mountain Pipeline (695 miles of 20, 30, and 36-in.) proposed by Pacific Gas Transmission, and the Trans-Anadarko Pipeline System involving 635 miles of 36-in.

Northwest Pipeline Co. has completed 340 miles of 24 and 30-in., while Florida Gas is awaiting approval on 309 miles of 30-in. loops on its system, and Colorado Interstate Gas Co. is planning 300 miles of 26 and 30-in. loops on its system. Boundary Gas Co., to be built and operated by Tennessee Gas Pipeline and owned by 14 gas companies, is planning 294 miles of 10, 12, 26 and 30-in.

Northern Tier Pipeline expects action this year on its proposal to build a 1550-mile, 40 and 42-in. crude oil line from the Seattle area to Clearbrook, Minn. Western Crude Oil of Denver is building 115 miles of 10-in. from Medford, Okla., to Conway, Kan., and another 47 miles of line in South Texas near Giddings.

Energy Transportation Systems, Inc. expects to receive its final EIS from the Bureau of Land Management in late July. The ETSI system is in the final design stage and ROW acquisition is underway. Work on the coal slurry line is expected to begin in 1982.

Canadian pipeline activity is at its best in recent years. In addition to the nearly 400 miles of 42-in. underway by Nova on the Alaska Highway Gas Pipeline Project, TransCanada PipeLines has 64 miles of 48-in. loop underway and plans another 221 miles of 42 and 48-in. loop later this year. First stage of the Quebec and Maritimes gas line-100 miles of 30-in. - may also be underway this year. TransCanada also has proposed a 235-mile, 42-in. "shortcut" from North Bay to Morrisburg (southeast of Ottawa) that may see action this year.

British Columbia Hydro has won approval for a 212-mile, 12, 16, and 24-in. system to bring gas from the mainland to Vancouver Island at a cost of $231 million. Not to be forgotten is the Polar Gas Project, involving some 2300 miles of 36 to 48-in. pipeline, that is still under study.

Liquids pipelines projects include a dual 89-mile system from Lloydminster to Cold Lake for Husky Oil involving a 6-in. condensate line and a 12-in. heavy oil + condensate return line. Similarly, Alberta Energy will build a dual 145-mile system from Cold Lake to Edmonton, also with a 6-in. condensate line and a 12-in. heavy oil + condensate return line.

Alberta Products Pipeline is currently building a 196-mile, 10-in. products line from Edmonton to Calgary. Dome Petroleum, Westcoast Transmission, and Canadian Occidental Petroleum Ltd. reportedly are planning a 500-mile, 10-in. line to transport NGL from Prince George, B.C. to Prince Rupert and Kitimat, B.C. And, finally, approval has been given for a $360 million crude oil line from Norman Wells to Northern Alberta, to be built by Interprovincial Pipeline. ■

Gas Distribution Growth Continues

by Jim Watts, *Assistant Editor, Pipeline & Gas Journal*

Statistics can be confusing, but the trend of figures relating to gas distribution tell an easy-to-read story: customers, industrial as well as residential, realize gas is efficient, available, and all in all, very cheap for the price.

Residential demand is still good, despite a depressed new housing market due to high interest rates, and conversions are high as more and more customers move away from expensive oil and electricity. Gas utilities will add 650,000 to 750,000 customers during 1981, down from the 820,000 added during 1980. More than $2.019 billion will be spent during the year on 29,219 miles of new distribution piping and outlays for maintenance of the nation's 1.35 million miles of existing services. Total number of customers served as of Dec. 31, 1980, was more than 46.7 million.

The 1981 estimate is 13.05% higher than the $1.786 billion spent for new and replacement mains and services and system maintenance in 1980, and expenditures in 1980 were a record 14.6% higher than the expenditures in 1979 of $1.558 billion. Increasing budgets reflect demand for gas energy in an economy that still has to pick itself up, and also that inflation is continuing to add to the burden of paying for ever more expensive labor, materials, and construction equipment.

One of the ways the industry is fighting inflation is with plastic pipe, which is cheaper than steel pipe and can be installed easier and without highly specialized skills, such as welding. More than 78% of all the pipe installed in 1980 was plastic, the seventh year in a row that plastic pipe accounted for more than half the pipe installed. In 1981, utilities plan to install 22,234 miles of plastic pipe to add to the 176,087 miles currently in the ground.

American Gas Association's latest capital expenditures outlook anticipates more than $401 billion in gas industry expenditures between 1981 and 2000, of which a projected $124 billion (or more than $6 billion a year) will go into construction and maintenance of cross-country pipelines and utility mains and services.

Peakshaving supplies are ample to protect the 46.7 million customers, 38 million of whom heat their homes with natural gas. Underground gas storage, propane-air, peakshaving LNG, and other supplemental fuels totaled 71.68 Bcf during the 1980-81 winter, up from 69.86 Bcf in the 1979-80 winter. Major U.S. utilities such as Southern California Gas Co., Columbia Gas System, El Paso Natural Gas Co., and others will spend nearly $328.1 million in 1981 for underground gas storage and related facilities. ■

U.S. GAS DISTRIBUTION PIPING — 1980-1989

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Projection										
Miles of Gas Mains Installed	13,573	13,744	14,900	14,800	14,400	14,600	14,200	14,200	14,700	15,100
Miles of Gas Services Installed	14,379	15,475	14,200	14,600	14,700	15,000	15,600	15,550	15,900	15,900
Total	**27,952**	**29,219**	**29,100**	**29,400**	**29,100**	**29,600**	**29,800**	**29,750**	**30,600**	**31,000**
Construction Expenditures, Distribution ($Billion)	1.781	2.019	2.381	2.646	2.987	3.402	3.870	4.299	4.872	5.370

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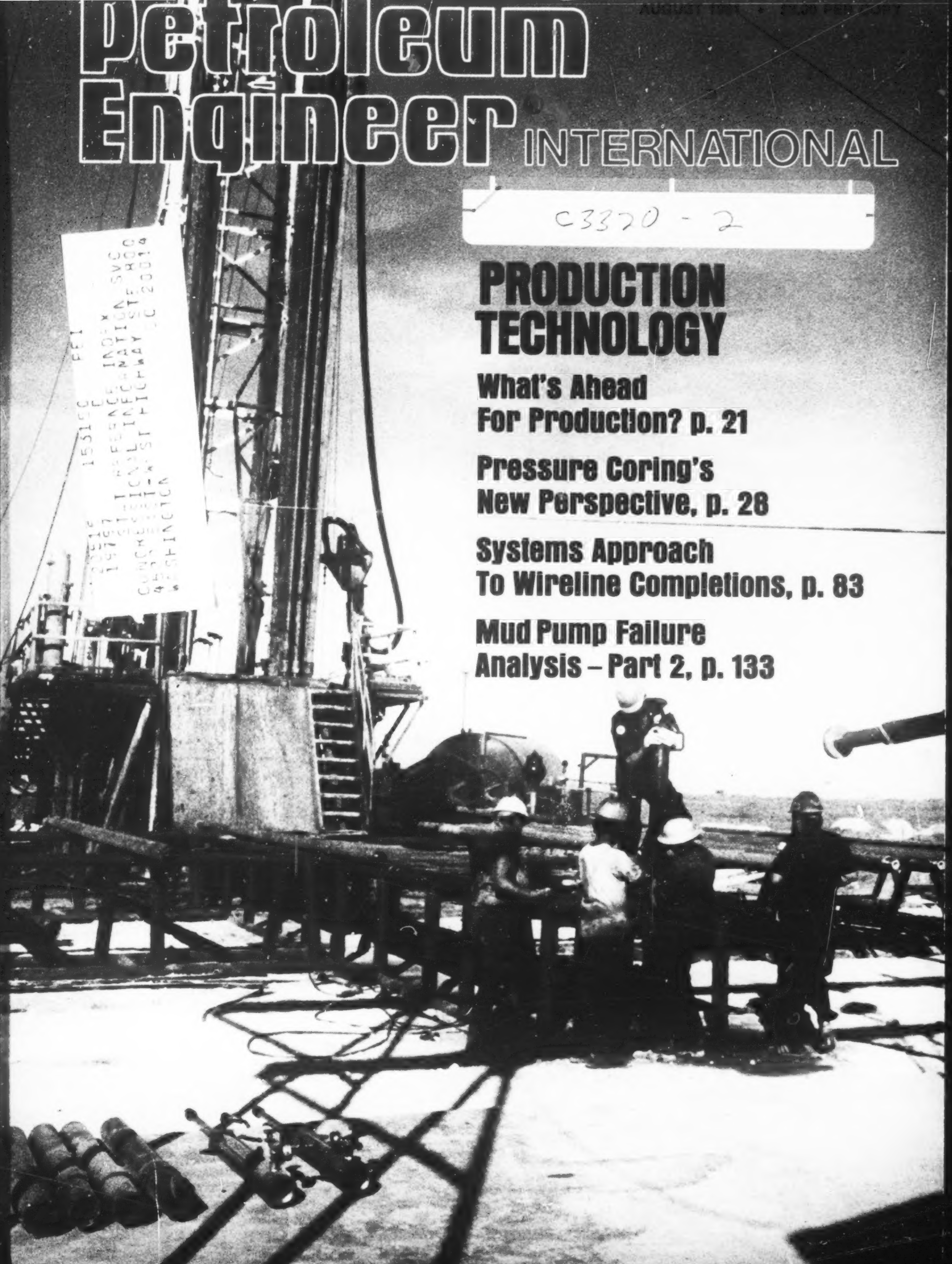


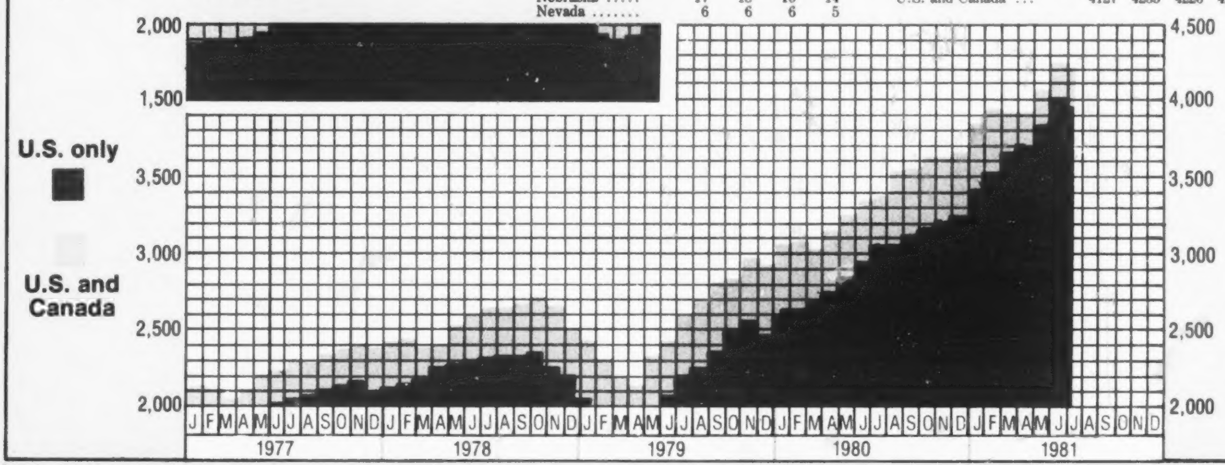
U.S. Drillers Increase Weekly Average By 964.5

U.S. rotary drillers upped their average by 964.5 active rigs during the first half of this year as compared with the first 6 months of 1980. At the mid-year mark in 1981, the average weekly count by Hughes Tool Co. stood at 3,666.9. Last year at the same time it was 2,702.4.

In poor Canada, the reverse is true. Last year at the end of June that country's weekly average stood at 387.8. This year, it is 295.1.

U.S. drillers began the second half of this year by dropping out of the 4,000-bracket they had reached during the last two weeks in June. The rig count for the first week in July was 3,984, and that marked the first time this year that the count had been in the 3,900-bracket. Between June 15 and June 22, the drilling industry had added 109 active rigs to bypass the 3,900s altogether.

	June 15, 1981	June 22, 1981	June 29, 1981	July 6, 1981
Alabama				
Land	15	14	21	19
Offshore	3	3	3	3
Alaska				
Land	19	18	18	18
Offshore	4	4	4	4
Total	23	22	22	22
Arkansas	31	32	32	31
Arizona	1	1	1	1
California				
Land	133	136	131	131
Offshore	20	20	20	20
Total	153	156	151	151
Colorado	76	80	87	87
Florida				
Land	6	6	6	7
Offshore	2	2	2	2
Total	8	8	8	9
Georgia	1	1	2	1
Hawaii	1	1	1	1
Idaho	3	3	4	2
Illinois	24	29	27	36
Kansas	198	197	198	191
North Louisiana	65	75	75	78
South Louisiana				
Inland Waters	84	84	81	79
Land	153	149	146	147
Offshore	141	148	153	161
Total	443	456	455	465
Maryland	1	1	1	1
Michigan	40	40	38	30
Mississippi	70	70	66	62
Montana	81	80	80	81
Nebraska	17	18	16	14
Nevada	6	6	6	5
New Mexico	131	132	138	134
New York	12	11	12	11
North Dakota	123	132	123	127
Ohio	103	119	120	111
Oklahoma	657	665	680	689
Oregon	2	2	1	1
Pennsylvania	32	36	35	37
Rhode Island				
Offshore	1	1	1	1
South Dakota	4	2	2	1
Tennessee	0	0	1	0
Texas				
Offshore	70	73	71	71
Dist. 1	71	70	72	75
Dist. 2	67	73	62	65
Dist. 3	240	261	273	253
Dist. 4	117	121	118	118
Dist. 5 & 6	173	173	172	173
Dist. 7B	84	85	86	87
Dist. 7C	97	95	93	87
Dist. 8	156	167	163	162
Dist. 8A	85	85	88	101
Dist. 9	94	95	88	87
Dist 10	68	71	69	70
Total	1322	1369	1355	1349
Utah	73	77	71	74
Virginia	3	3	2	3
Washington	1	1	2	2
West Virginia	42	45	47	46
Wyoming	198	195	198	192
Total U.S.	3899	4008	4007	3984
Western Canada	224	223	214	227
Eastern Canada	4	4	5	7
U.S. and Canada	4127	4235	4226	4218



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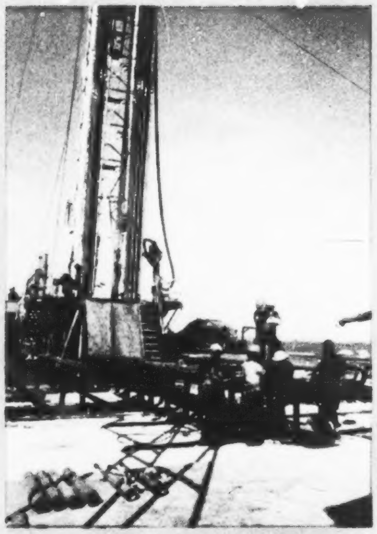

ABOUT THE COVER: A core barrel that had been prepared in a field laboratory is shown being transferred to a drilling rig in the Wasson field of West Texas. For a full report on innovative pressure coring, see p. 28. (Photo courtesy of H.J. Gruy and Associates Inc.)

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International Land Rig Locator, p. R-1

U.S. Drillers Continue Record-Breaking Pace

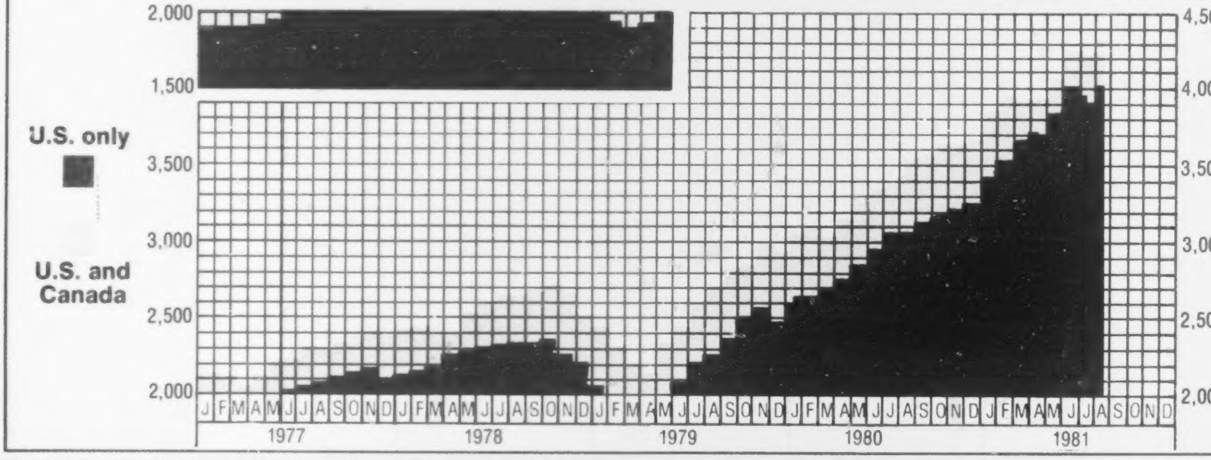
Rotary drillers in the U.S. are continuing their incredible assault on all-time standards that are not even a year old. At mid-August, with more than 4,100 active rigs, they seemed to have left behind the 4,000 barrier that had been a minor obstacle during June and July to their year-long advance. Hughes Tool Co.'s weekly count on August 10 put the country's active rig total at 4,116, and there are no indications we'll ever see the 3,000s again–this year, at least.

Nine states now have rig counts in triple figures, with Texas way out in front. Next, in order, are Oklahoma, Louisiana, Kansas, Wyoming, California, North Dakota, New Mexico, and Ohio. These nine states have a combined total of 3,480 active rigs, which is 143 rigs higher than the total for the entire country during the first week of 1981. The year-long average rig count stands at 3,734.

Rotary Rigs Actually Making Hole In United States & Canada

As Reported to International Association of Drilling Contractors by Hughes Tool Co.

	July 20, 1981	July 27, 1981	Aug. 3, 1981	Aug. 10, 1981
Alabama				
Land	20	18	15	19
Offshore	3	3	3	2
Total	23	21	18	[illegible]
Alaska				
Land	18	18	17	18
Offshore	3	2	2	2
Total	21	20	19	20
Arkansas	30	31	34	35
Arizona	2	2	2	2
California				
Land	138	139	139	141
Offshore	21	21	21	22
Total	159	160	160	163
Colorado	85	33	76	89
Florida				
Land	6	7	8	6
Offshore	2	2	2	2
Total	8	9	10	8
Georgia	1	0	1	0
Hawaii	1	1	1	1
Idaho	4	4	4	4
Illinois	30	32	32	32
Kansas	183	189	196	194
Kentucky	0	1	2	2
North Louisiana	69	67	64	65
South Louisiana				
Inland Waters	83	78	77	74
Land	155	145	152	159
Offshore	165	169	160	162
Total	472	459	453	460
Maryland	0	1	1	1
Michigan	32	32	34	38
Mississippi	62	66	67	72
Montana	65	77	88	88
Nebraska	18	20	22	20
Nevada	4	4	4	4
New Mexico	137	127	126	131
New York	17	17	17	18
North Dakota	148	128	126	134
Ohio	111	112	112	109
Oklahoma	705	704	712	715
Oregon	1	1	2	1
Pennsylvania	38	39	45	37
Rhode Island				
Offshore	1	2	1	2
South Dakota	2	3	4	3
Tennessee	1	0	0	0
Texas				
Offshore	68	71	71	70
Dist. 1	66	69	73	74
Dist. 2	72	55	67	74
Dist. 3	259	260	255	258
Dist. 4	117	133	122	123
Dist. 5 & 6	176	175	174	172
Dist. 7B	71	70	80	85
Dist. 7C	95	93	90	96
Dist. 8	177	169	175	183
Dist. 8A	95	85	100	89
Dist. 9	84	99	86	85
Dist. 10	71	69	69	72
Total	1351	1348	1362	1381
Utah	70	73	77	81
Virginia	2	6	6	6
Washington	2	2	2	2
West Virginia	48	50	50	45
Wyoming	193	185	188	193
Total U.S.	4027	4009	4054	4116
Western Canada	225	223	221	215
Eastern Canada	7	7	7	7
U.S. and Canada	4259	4239	4282	4338



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ABOUT THE COVER: Unusual view of rig activity was snapped during a trip on a deep-drilling rig in the Rocky Mountain Overthrust Belt. (Photo courtesy of Brinkerhoff-Signal Inc.)

NEXT MONTH: Despite high costs and high taxes, development drilling is still going strong in the North Sea. The October issue will look at some of the challenges and problems.

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by Ernestine Adams

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Preventive Maintenance Saves Equipment, Time, And Money

by Jim Franklin, *Preventive Maintenance Superintendent, Moran Bros. Inc., Wichita Falls, Tex.*

Preventive maintenance in the drilling industry has become a necessity. New companies are being formed every day. These companies are building drilling rigs as fast as they can, which are immediately being put in service. The recent increase in drilling has placed tremendous demands and burdens on equipment and the people who maintain it. Parts to make repairs are no longer available; machine shops and overhaul agencies are overflowing with work. Therefore, it is essential that equipment be properly maintained.

The equipment failures in Figs. 1 through 3 are typical examples of things that every contractor has probably been faced with – equipment which has been damaged or ruined as the result of simple neglect or lack of experience. The increasing number of drilling rigs in operation also has created a serious shortage of experienced personnel. These shortages have led to early promotions, up to and including rig managers and drilling superintendents, which adds to the need for preventive maintenance.

In 1956, there were 2,689 drilling rigs available for contracting. This figure decreased to an all-time low in 1971, at a total of 1,000, and then began an increasing trend (Table 1). The statistics show the increase in drilling activity and provide some realization of the intense impact on the industry. These figures do not include the Soviet Union. The figures in Table 1 also show the need for increased emphasis on the condition of drilling equipment, availability of parts, quality of maintenance, etc.

Where To Start

One of the first programs necessary for proper preventive maintenance is an oil sampling program on engines. Samples should be taken at scheduled intervals, and by analyzing various wear metals, engine failures can often be detected prematurely. Even the part of the engine which is failing can sometimes be determined prior to disassembly, based on the type of wear metal in the sample.

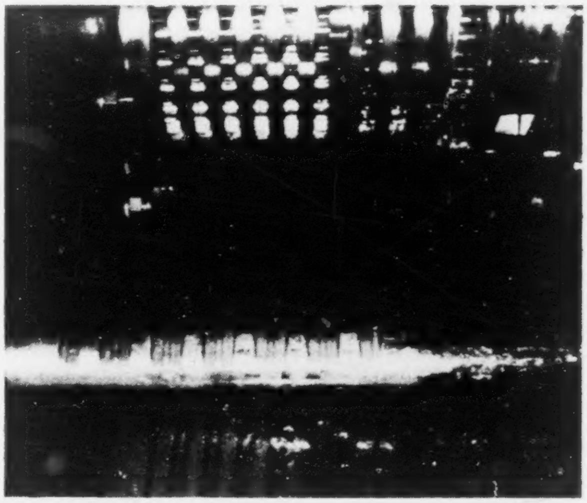

Fig. 1. The chain of this compound became so loose it began rubbing against the chain oiler–nearly wearing it in half.

As a result, the engine can be repaired at a lower cost than if it had been allowed to continue in use until actual failure.

Overheating engines is sometimes a problem which may be due to the misuse of corrosion inhibitor. Some contractors use a sodium chromate water system corro-

TABLE 1. Drilling statistics

Number of wells drilled in 1975, 1978, and 1985 (speculated)*

	1975	1978	1985
U.S.	38,387	49,887	63,603
International	9,543	12,985	21,883
Total	47,930	62,872	85,486

Number of feet of hole made*, in millions

	1975	1978	1985
U.S.	178.6	240	315.0
International	51.7	68	114.6
Total	230.3	308	429.6

*Made available through the University of Texas School of Rig Maintenance Technology

sion inhibitor, which is one of the best and most commonly used inhibitors. Chromate inhibitors, however, should not be used in permanent-type antifreeze solutions. Chromium hydroxide, commonly called green slime, can result from the use of chromate inhibitors with permanent-type antifreeze. This material deposits on the cooling system passages, reducing the heat transfer rate, and results in engine overheating. To correct the problem, engines will have to be chemically cleaned and flushed prior to reservicing with permanent antifreeze, but the overheating problem can be corrected.

Water Sampling

Another useful practice is a water sampling program – once each quarter water samples are taken from each radiator. This sample is chemically tested for the pH factor, nitrite level, and coolant concentration. From the results of this test, one can determine the amount of corrosion inhibitor which needs to be added. Corrosion inhibitors are incorporated into permanent-type antifreeze, and while freeze protection lasts indefinitely, the inhibitor quality is lost after approximately 90 days of operation. It is necessary, therefore, to add corrosion inhibitor on a quarterly basis.

Samples of raw water should be taken each time a rig moves to a new location and then taken to a chemical laboratory for analysis. The chemical makeup of some of these waters drawn from farm ponds, or even wells which are drilled on location, is simply not suitable for drilling rig applications. Some waters contain chemicals which will attack various types of metals, leaving behind heavy scale and corrosion; some will eat up drill pipe at an astonishing rate. But one would never know this if the waters were not tested.

Cut-off Program

With the deeper wells and heavier hook loads used today, cut-off procedures have become an important part of proper rig operations. The safety factor is, of course, the most important reason for ton mile calculation; however, wire rope which has been reduced in diameter will also result in excessive wear on the crown and traveling block sheaves. There is also the possibility of breaking a drilling line which has worn beyond its limits, which is extremely damaging to equipment, not to mention the safety of rig personnel. A proper cut-off program is designed and tailored differently for each specific rig, based on a number of various measurements and equipment sizes. It is designed to provide the longest life possible with regard to safety and reliability.

Inspection

A semiannual mud pump inspection is also recommended. Every 6 months, remove all of the inspection plates, recycle the oil, then, before returning the recycled oil to the pump, spray it and thoroughly flush it out with diesel fuel. Clean out the sludge and sediment, then inspect the gear end. Many minor discrepancies can be found and corrected during this inspection before they become major problems. Clean or replace oil filters and service pulsation dampeners if necessary during these inspections.

Many rigs have problems, during cold weather operations, with air lines and valves freezing up. Some of these problems result in very costly downtime. The contractor can install, on each rig, an independent deicing system in the air system. This deicer incorporates its own reservoir which contains a deicing fluid. This fluid is emitted into the air lines and keeps ice from forming through condensation. It is also a lubricator which keeps air valves properly lubricated, so it is recommended for year-round use. Through the use of this deicer, most freezing problems can be eliminated.

Equipment failure also can occur if a piece of equipment has been operated when it should not have been. Perhaps the oil had been drained or a component removed that would render it inoperable. Preprinted warning tags can be distributed to the rigs to help prevent these problems. When a piece of equipment should not be operated, a warning tag is placed on the controls, advising the operator of its condition.

A quarterly rig inspection can ward off many potential hazards – check the general condition of all equipment and initiate reports and recommendations to rig managers and management. Derricks and substructures should be inspected each year. This is best accomplished during a rig move when the derrick is lowered, so a more comprehensive inspection can be conducted. Annual inspections on all of the traveling equipment

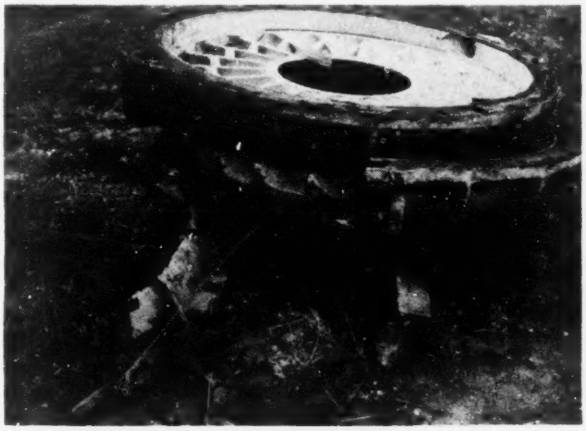

Fig. 2. This 40-in. double hydromatic brake froze and burst during cold weather operations. The brake is cooled by circulating water. However, in this case, the water was not treated with the proper coolant.

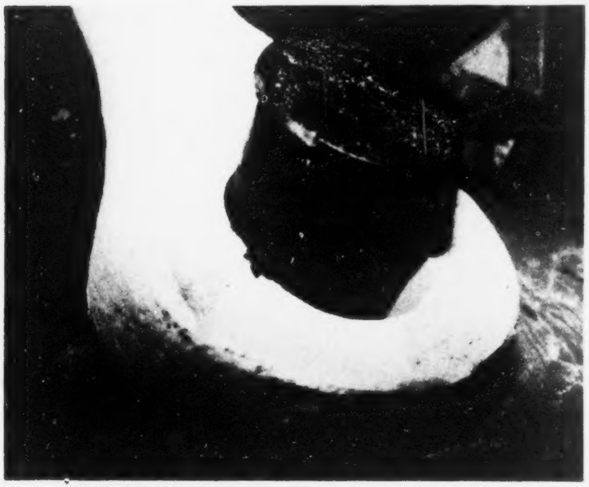

Fig. 3: This 120-ton swivel shows excessive wear on the bail where the bail is pinned – the wear far exceeds acceptable limitations.

and pipe handling equipment should include crown and traveling blocks, hooks, swivels, kelly bushings, master bushings, and drill collar clamps.

Other special inspections or projects will be dictated by management – there are always peculiarities which arise from time to time, away from the regularly scheduled actions, which require attention. Thorough reports should be made on all inspections. These reports should include recommendations for repair or a suggested course of action.

There is virtually no end to the preventive maintenance actions and programs that can be taken advantage of as related to a drilling rig. To begin with, one must believe in it, then attack the problems and objectives with a positive attitude.

The key to minimizing costly downtime and increasing the life of equipment is through a program of good, sound maintenance practices. We have attempted to standardize procedures, establish maintenance intervals, and insure that they are met; and ultimately reduce maintenance costs and downtime through prolonging equipment life.

About the Author

Jim Franklin is preventive maintenance superintendent for Moran Bros. Inc. in Wichita Falls, Tex. In this capacity, he develops maintenance programs for rigs in western Oklahoma, the Texas Panhandle, and southwest Texas.

Franklin joined Moran Bros. in September 1977, following a career in the Air Force. His Air Force career began in 1956 and took him all over the world, including overseas assignments in Okinawa and Vietnam. His duties included jet engines and aircraft maintenance, and he retired in 1977 as a technical sergeant. ■

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Double Eagle Gas Discovery

Double Eagle Petroleum and Mining Co. has a natural gas discovery 70 miles northwest of Casper in the Wind River Basin of central Wyoming.

The well, No. 2 Graham unit, flowed 2.5 MMcfd of gas and 60 b/d of condensate, no water, through a ⅛-in. choke with tubing pressure of 2,390 psi, for a calculated absolute open flow of 3.8 MMcfd. Production is from the Fort Union formation through perforations between 7,328 and 7,340 ft, 7,430 and 7,432 ft, and 8,540 and 8,560 ft.

The well is 1 mile north of nearest production in the Frenchie Draw field, which produces gas from the Fort Union formation but not from the same reservoir.

Cotton Petroleum Tests Gas in Texas

Cotton Petroleum Corp. has a high-flowing gas well in the Texas Panhandle.

The Weinette B No. 1 well, a northwest stepout to the May Basal Morrow field, was completed from the Upper Morrow sandstone with a calculated open flow rate of 7.8 MMcfd of gas. In production testing, the well flowed 4.1 MMcfd with a flowing tubing pressure of 1,426 psi from perforations between 9,263 and 9,278 ft.

Pioneer Gasser In Roger Mills County

Pioneer Production Corp's Hershberger No. 1-4 in Roger Mills County, Oklahoma, is completed in the Upper Morrow chert conglomerate formation from 16,364 to 16,389 ft, and is producing at a rate of 15.8 MMcfd of natural gas with a flowing tubing pressure of 1,200 psi.

World Rig Count Goes Monthly

The International Rotary Drilling Rig Report prepared by Hughes Tool Co., Houston, Tex., will be issued on a monthly basis from now on instead of quarterly. In addition, the report now breaks out offshore rigs.

The changes began with the report for the second quarter of 1981. In it, Hughes counted 1,024 land rigs and 338 offshore rigs for a total of 1,362 active rigs in the Free World. Adding U.S. and Canadian rigs as of the end of June gives a grand total of 5,588.

(continued on page 198)

International Rotary Drilling Rig Report

	June 1981			May 1981		June 1980	
Africa	**Land**	**Offshore**	**Total**	**Land**	**Offshore**	**Land**	**Offshore**
Algeria	98	0	98	98	0	113	0
Angola	0	4	4	0	4	1	4
Cameroun	0	8	8	0	8	0	4
Gabon	5	8	13	5	8	2	7
Libya	31	2	33	31	2	38	2
Morocco	4	0	4	4	0	1	1
Chad	1	0	1	1	0	1	0
Nigeria	15	5	20	15	5	15	5
Rep. of Congo	2	5	7	2	5	0	4
Rep. of Zaire	1	0	1	1	0	1	0
Tunisia	8	3	11	8	3	5	2
Niger	5	0	5	5	0	5	0
Ivory Coast	0	4	4	0	4	1	2
South Africa	0	2	2	0	2	1	1
Sudan	3	0	3	3	0	2	0
Total:	173	41	214	173	41	186	32

	June 1981			May 1981		June 1980	
Europe	**Land**	**Offshore**	**Total**	**Land**	**Offshore**	**Land**	**Offshore**
Austria	8	0	8	8	0	8	0
Belgium	0	0	0	0	0	1	0
Denmark	0	2	2	0	2	3	0
France	15	2	17	15	2	10	1
Germany	23	1	24	23	1	23	0
Greece	3	3	6	3	3	1	2
Holland	9	6	15	9	6	6	14
Italy	25	7	32	25	7	7	9
Norway	0	12	12	0	12	0	11
Portugal	1	0	1	1	0	0	0

Latin America is the leading drilling region listed in the report, with 509 rotary rigs–423 of them land rigs. Mexico, with more than 200 rigs, is the easy leader, finishing way ahead of Brazil, Argentina, and Venezuela.

In the Far East, Indonesia leads the way with 85 rigs–25 of them offshore. India is second and Burma is third. African drilling is led by Algeria. Libya is a distant second, and Nigeria, Gabon, and Tunisia are the only other countries in double figures.

Europe is credited with 209 rigs (90 offshore) and, after the U.K.'s 59 rigs, most of them are pretty well distributed among six or seven countries.

The Middle East rig count as of the end of June is 160, with Saudi Arabia, Abu Dhabi, Egypt, and Turkey accounting for most of them. The South Pacific, which in the Hughes report means Australia, New Zealand, and Papua New Guinea, is credited with 22 rigs, which represents a 22% increase over the previous month.

Union Oil Tests Thailand Wildcat

Union Oil Co. of California's Pladang No. 3 wildcat in the Gulf of Thailand tested at a combined rate of 31.1 MMcfd of natural gas and 1,099 b/d of condensate through ½-in. and ¾-in. chokes during four tests from zones between 5,402 and 7,758 ft.

The well is located approximately 5 miles southeast of Pladang No. 2, drilled earlier this year. The Pladang field is approximately 25 miles north of the Erawan field, which is to begin production this fall.

IMCO Increases Well Control Courses

IMCO Services, Houston, Tex., has increased the frequency of BOSS training service well-control refresher courses it offers from once a month to twice a month.

The basic course runs 4 to 5 days. On request, IMCO will conduct refresher courses for customers at their company sites for groups of 8 to 10 persons.

Seismic Count Nears Record

The total number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters took another dramatic step upward during June to come within four crews of the 700 mark.

The Society of Exploration Geophysicists says the June total was 696, up from 661 in May. The 696 figure is within 14 crews of the all-time high of 710 reached in October 1952.

Switzerland	1	0	1	1	0	1	0
Spain	8	2	10	8	2	5	7
United Kingdom	4	55	59	4	55	2	48
Yugoslavia	22	0	22	22	0	22	0
Total:	119	90	209	119	90	89	92

		June 1981		May 1981		June 1980	
Far East	**Land**	**Offshore**	**Total**	**Land**	**Offshore**	**Land**	**Offshore**
Bangladesh	5	0	5	5	0	2	0
Brunei	1	6	7	1	6	2	6
Burma	31	0	31	31	0	24	0
India	37	7	44	37	7	36	6
Indonesia	60	25	85	60	25	58	19
Japan	15	2	17	15	2	13	3
Korea	0	0	0	0	0	0	0
Malaysia	0	13	13	0	13	1	10
North Korea	0	0	0	0	0	0	1
Pakistan	16	0	16	16	0	12	0
Philippines	8	3	11	8	3	10	3
Thailand	2	5	7	2	5	1	3
Taiwan	11	1	12	11	1	10	2
Vietnam	0	0	0	0	0	0	1
Total:	186	62	248	186	62	169	54

		June 1981		May 1981		June 1980	
Latin America	**Land**	**Offshore**	**Total**	**Land**	**Offshore**	**Land**	**Offshore**
Argentina	65	3	68	76	2	71	1
Bolivia	10	0	10	11	0	4	0
Brazil	52	31	83	48	31	38	38
Central America	5	0	5	5	0	3	0
Chile	3	4	7	3	4	4	2
Colombia	16	0	16	25	0	13	1
Ecuador	3	0	3	4	0	3	0
Mexico	197	20	217	197	20	193	23
Peru	18	5	23	18	5	15	5
Trinidad	8	6	14	8	6	8	6
Venezuela	46	17	63	45	17	38	16
Total:	423	86	509	440	85	390	92

		June 1981		May 1981		June 1980	
Middle East	**Land**	**Offshore**	**Total**	**Land**	**Offshore**	**Land**	**Offshore**
Abu Dhabi	10	18	28	10	18	5	19
Bahrain	1	0	1	1	0	1	0
Dubai	0	2	2	0	2	1	2
Egypt	11	16	27	11	16	10	17
Iran		No report			No report		
Iraq	5	0	5	5	0	39	0
Kuwait	3	0	3	3	0	3	0
Neutral Zone			Included in Saudi Arabia				
Oman	9	0	9	9	0	8	0
Qatar	4	4	8	4	4	4	4
Ras Al Khaimah	1	0	1	1	0	1	0
Saudi Arabia	16	15	31	16	15	15	10
Sharjah	1	1	2	1	1	1	0
Syria	16	0	16	16	0	15	0
Turkey	26	0	26	26	0	7	0
Umm Al Qaiwain	1	0	1	1	0	0	0
Total:	104	56	160	104	56	110	52

		June 1981		May 1981		June 1980	
South Pacific	**Land**	**Offshore**	**Total**	**Land**	**Offshore**	**Land**	**Offshore**
Australia	19	2	21	11	3	10	7
New Zealand	0	1	1	3	1	1	0
Papua New Guinea	0	0	0	0	0	1	0
Total:	19	3	22	14	4	12	7
Grand Totals:	**1,024**	**338**	**1,362**	**1,036**	**338**	**956**	**329**

Second Quarter Report

Downstream Operations Limit Earnings

by Greg Martin, *Editor, ENERGY NEWS/ENERGY WEEK*

Refining and marketing operations improved over first quarter, but not enough. That was the common theme of integrated companies' earnings reports in second quarter.

Greater income from exploration/production in first half of 1981 was offset by lower margins on downstream business. As a group, the 74 oil companies in our survey showed a 4.7% decline in net income from first half of 1980. Profit margin for the group fell from 6.4% to 5.4%.

Higher prices for U.S. crude oil after decontrol in January, and for natural gas under phased decontrol, lifted earnings of independent producers, though "windfall profits" tax eliminated much of the gain on crude production.

Domestic production made U.S. earnings better than foreign earnings for international operators. Also, strengthening of the U.S. dollar against other currencies resulted in lower margins in foreign countries when expressed in dollars.

Excluding currency translation gains of $588 million (compared to losses of $368 million in second quarter 1980), Exxon's worldwide earnings fell 13.3% from 1980 because of lower margins on refined products and a 15% decline in sales. U.S. refining/marketing in first half 1981, though better than operations abroad, lost $20 million, compared to $147 million profit in same 1980 period.

Shell Oil showed big gain in exploration/production earnings in first half, but downstream earnings fell and overall income remained flat. Standard California's U.S. oil/gas earnings were up 81% but overall net was

FIRST HALF GAS COMPANY FINANCIAL REPORTS

	Three months ending June 30**						Six months ending June 30**						Profit△ Margin	
	Revenues ($000)			Earnings* ($000)			Revenues ($000)			Earnings* ($000)				
Company	1981	1980	% Chg.	1981	1980	% Chg.	1981	1980	% Chg.	1981	1980	% Chg.	1981	1980
Alabama Tennessee N.G.	27,065	20,124	+ 34.5	1,313	1,311	+ 0.2	106,134[3]	86,877[3]	+ 22.2	5,583[3]	5,154[3]	+ 8.3	5.3	5.9
American Nat. Resources	590,044	459,770	+ 28.3	23,788	16,524	+ 44.0	1,479,146	1,244,981	+ 18.8	85,042	70,684	+ 20.3	5.7	5.7
Arkansas Louisiana Gas	302,421	242,061	+ 24.9	32,602	22,376	+ 45.7	1,088,217[3]	903,349[3]	+ 20.5	82,185[3]	78,320[3]	+ 4.9	7.6	8.7
Coastal Corp.	1,414,706	1,116,527	+ 26.7	(37,494)	28,590		3,186,108	2,562,891	+ 24.3	(24,155)	54,981			2.1
Columbia Gas	862,677	739,542	+ 16.7	31,423	30,629	+ 2.6	2,302,498	2,041,924	+ 12.8	114,617	113,107	+ 1.5	5.0	5.5
Commonwealth Nat. Res.	56,191	40,458	+ 38.9	1,267	1,041	+ 21.7	133,037	110,665	+ 20.2	4,242	4,165	+ 1.9	3.2	3.8
Consolidated N.G.	524,518	464,856	+ 12.8	22,171	11,067	+100.3	1,567,560	1,418,062	+ 10.5	93,389	81,070	+ 15.2	6.0	5.7
El Paso Companies†	1,007,000	898,000	+ 12.1	37,772	6,131	+516.1	2,008,000	1,737,000	+ 15.6	68,676	40,879	+ 68.0	3.4	2.4
ENSERCH Corp.	821,566	617,744	+ 33.0	46,197	31,169	+ 48.2	1,656,408	1,312,431	+ 26.2	102,120	73,801	+ 38.4	6.2	5.6
Houston N.G.[1]	732,963	603,418	+ 21.5	59,478	56,031	+ 6.2	1,452,440	1,190,050	+ 22.0	121,285	105,326	+ 15.2	8.4	8.9
Internorth	737,980	603,871	+ 22.2	39,305	42,722	- 8.0	1,880,595	1,542,267	+ 21.9	155,667	153,187	+ 1.6	8.3	9.9
Mountain Fuel Supply	113,743	95,863	+ 18.7	7,168	7,219	- 0.7	260,300	224,888	+ 15.7	21,743	22,169	- 1.9	8.4	9.9
National Fuel Gas	174,883	135,965	+ 28.6	841	(1,499)		755,137[4]	625,623[4]	+ 20.7	30,495[4]	21,502[4]	+ 41.8	4.0	3.4
Northwest Energy	287,178	283,770	+ 1.2	14,169	10,741	+ 31.9	715,878	715,298	+ 0.1	37,166	28,8[illegible]	+ 28.9	5.2	4.0
ONEOK Inc.	261,049	205,506	+ 27.0	12,051	9,300	+ 29.6	594,926	485,712	+ 22.5	33,291	30,231	+ 10.1	5.6	6.2
Pacific Lighting	803,948	663,109	+ 21.2	33,596	22,855	+ 47.0	1,593,811	1,435,245	+ 11.0	74,223	45,555	+ 62.9	4.7	3.2
Panhandle Eastern	844,428	550,282	+ 53.5	78,961	37,405	+112.0	1,723,382	1,207,469	+ 42.7	156,759	97,828	+ 60.2	9.1	8.1
Peoples Energy	700,212	671,286	+ 4.3	24,610	25,700	- 4.2	1,934,898	1,747,148	+ 10.7	113,380	91,942	+ 23.3	5.9	5.3
Pioneer Corp.	308,022	234,788	+ 31.2	28,401	22,390	+ 26.8	596,177	445,271	+ 33.9	57,599	45,820	+ 25.7	9.7	10.3
Southern Nat. Res.	623,444	400,516	+ 55.7	37,996	30,748	+ 23.6	1,301,498	954,298	+ 36.4	85,344	67,798	+ 25.9	6.6	7.1
Southern Union Co.	239,173	218,914	+ 9.3	8,568	8,186	+ 4.7	557,465	475,877	+ 17.1	27,832	25,839	+ 7.7	5.0	5.4
Texas Eastern Corp.	1,017,967	1,057,379	- 3.7	59,915	55,569	+ 7.8	2,172,514	2,144,090	+ 1.3	122,523	116,827	+ 4.9	5.6	5.4
Texas Gas Trans.	590,366	511,124	+ 15.5	28,315	18,837	+ 50.3	1,273,530	1,096,457	+ 16.1	59,943	43,910	+ 36.5	4.7	4.0
Texas Oil & Gas[2]	296,062	216,432	+ 36.8	50,570	37,250	+ 35.8	1,149,402[4]	866,497[4]	+ 32.6	138,809[4]	101,292[4]	+ 37.0	12.1	11.7
TransCanada PipeLines							1,797,576	1,516,076	+ 18.6	64,314	47,322	+ 35.9	3.6	3.1
Transco Companies	931,973	601,327	+ 55.0	31,085	27,228	+ 14.2	1,797,163	1,187,562	+ 51.3	62,471	55,586	+ 12.4	3.5	4.7
United Energy Res.	1,277,800	929,401	+ 37.5	53,908	37,096	+ 45.3	2,541,876	1,964,183	+ 29.4	109,312	78,798	+ 38.7	4.3	4.0
TOTAL	15,547,379	12,582,033	+ 23.6	727,976	596,616	+ 22.0	37,625,676	31,242,191	+ 20.4	2,004,055	1,701,929	+ 17.8	5.3	5.4

**Excluding non-recurring items. *Earnings available to common stock. △Ratio = Earnings ÷ Revenues. [1] Ends April 30. [2] Ends May 31. [3] Twelve months. [4] Nine months. †1980 earnings reflect loss from discontinued LNG operations. ()Loss held down by lower margins on foreign refining/marketing.

Gulf Oil's worldwide losses from downstream business, excluding Gulf Canada Ltd., totaled $212 million in first half 1981, compared to $476 million profit in same 1980 period.

Despite much higher income from oil/gas and sulfur production, Pennzoil's net income continued to fall from 1980 levels because of lower product margins. Lower margins also caused decline for Marathon Oil.

Coastal Corp. posted net loss in second quarter as worldwide refining/marketing losses of $73.9 million more than offset higher profits on oil/gas production, gas pipelining and coal operations.

Dorchester Gas had big gains in production earnings, but unprofitable refining operations led to an overall decline. Same factor caused decline for Crystal Oil, which also cited higher interest rates – "almost twice what would be expected, given the improvement in inflation measures."

FIRST HALF OIL COMPANY FINANCIAL REPORTS

		Three months ending June 30**						Six months ending June 30**						Profit Margin†	
		Revenues ($000)			Earnings* ($000)			Revenues ($000)			Earnings* ($000)				
		1981	1980	% Chg.	1981	1980	% Chg.	1981	1980	% Chg.	1981	1980	% Chg.	1981	1980
1.	Adams R&E	53,435	57,394	- 7.4	(3,231)	(1,945)		119,174	119,705	- 0.4	(5,525)	(3,043)			
2.	Adobe Oil	43,356	40,170	+ 7.9	6,004	5,264	+ 14.1	82,661	79,391	+ 4.1	11,160	10,332	+ 8.0	13.5	13.0
3.	Amcole Energy	899	565	+ 59.1	25	(188)		2,712[4]	1,453[4]	+ 86.6	[illegible]	(434)[4]		5.6	
4.	Alaska Interstate	80,330	61,512	+ 30.6	6,284	18,063	-187.4	171,608	118,247	+ 45.1	[illegible]	28,901	- 16.2	14.1	24.4
5.	American Petrofina	713,724	494,147	+ 44.4	15,251	25,123	- 39.3	1,380,198	1,017,521	+ 35.6	[illegible]	56,533	- 37.2	2.6	5.6
6.	American Quasar	14,403	11,753	+ 22.5	814	1,395	- 41.6	28,119	21,838	+ 28.8	[illegible]	3,637	- 56.0	5.7	16.6
7.	Ashland Oil	2,516,913	2,121,931	+ 18.6	3,796	40,768	- 90.7	4,883,005	4,162,090	+ 17.3	[illegible]	83,030	- 94.6	0.1	2.0
8.	Atlantic Richfield	6,968,034	5,667,450	+ 22.9	380,106	436,416	- 12.9	14,100,354	11,128,626	+ 26.7	[illegible]	863,433	- 15.8	5.2	7.8
9.	Beard Oil	9,216	4,948	+ 86.3	1,416	1,207	+ 17.3	16,267	10,657	+ 52.6	[illegible]	2,410	+ 3.5	15.3	22.6
10.	Brock Exploration	1,296	1,174	+ 10.4	(232)	55									
11.	Cities Service	2,208,500	1,814,300	+ 21.7	90,500	107,000	- 15.4	4,484,100	3,986,300	+ 12.5	148,200	277,100	-46.5	3.3	7.0
12.	Clark O&R	432,382	431,167	+ 0.3	13,008	11,246	+ 15.7	863,090	833,441	+ 3.6	8,539	25,346	- 66.3	1.0	3.0
13.	Consolidated O&G	12,813	8,317	+ 54.1	1,711	(384)		24,350	16,458	+ 48.0	3,693	(290)		15.2	
14.	Conoco Inc.	4,916,600	4,657,300	+ 5.6	158,700	249,600	- 36.4	10,312,800	8,987,300	+ 14.7	409,600	578,200	- 29.2	4.0	6.4
15.	Crown Central	380,785	331,891	+ 14.7	3,915	3,404	+ 15.0	758,613	635,445	+ 19.4	(6,313)	14,882			2.3
16.	Crystal Oil	83,635	60,491	+ 38.3	1,598	1,758	- 9.1	159,509	118,812	+ 34.3	25	4,645	- 99.5	--	3.9
17.	Diamond Shamrock	786,281	744,768	+ 5.6	(43,448)	56,346		1,623,830	1,459,521	+ 11.3	4,589	112,601	- 95.9	0.3	7.7
18.	Dorchester Gas[1]	166,418	135,493	+ 22.8	7,583	8,882	- 14.6	318,292	310,271	+ 2.6	14,214	16,465	- 13.7	4.5	5.3
19.	Dyco Petroleum	12,197	7,317	+ 66.7	3,594	1,919	+ 87.3	22,776	13,713	+ 66.1	6,550	3,530	+ 85.6	28.8	25.7
20.	Equity Oil	6,835	3,666	+ 86.4	1,736	948	+ 83.1	12,441	6,970	+ 78.5	2,887	1,789	+ 61.4	23.2	25.7
21.	Exxon	27,469,000	26,223,000	+ 4.8	1,825,000	1,030,000	+ 77.2	57,792,000	53,877,000	+ 7.3	3,425,000	2,955,000	+ 15.9	5.9	5.5
22.	Felmont	17,178	14,940	+ 14.8	3,297	4,201	- 21.5	36,225	26,888	+ 34.7	8,634	7,950	+ 8.6	23.8	29.6
23.	Forest	34,900	21,863	+ 59.6	946	538	+ 75.8	65,994	43,327	+ 52.3	3,228	2,661	+ 21.3	4.9	6.1
24.	Getty Oil	3,216,549	2,643,318	+ 21.7	204,775	242,887	- 15.7	6,511,170	4,912,017	+ 32.6	434,705	468,435	- 7.2	6.7	9.5
25.	Gulf Energy & Develop.	14,112	10,935	+ 29.1	1,726	1,884	- 8.4	28,181	19,801	+ 42.3	3,289	3,397	- 3.2	11.7	17.2
26.	Gulf Oil Corp.	7,200,000	6,794,000	+ 5.9	311,000	470,000	- 33.8	15,074,000	14,547,000	+ 3.6	614,000	859,000	- 28.5	4.1	5.9
27.	Helmerich & Payne	81,326	52,060	+ 56.2	20,297	12,054	+ 68.4	157,316	105,539	+ 49.1	39,001	23,984	+ 62.6	24.8	22.7
28.	Holly Corp.[2]	93,725	112,568	- 16.7	382	3,376	- 88.7	190,129	213,287	- 10.9	1,769	6,274	- 71.8	0.9	2.9
29.	Inexco Oil	61,694	35,977	+ 71.5	8,447	5,602	+ 50.8	114,592	67,697	+ 69.3	14,792	11,349	+ 30.3	12.9	16.8
30.	KRM Petroleum	1,382	1,194	+ 15.7	244	185	+ 31.9	2,734	2,402	+ 13.8	498	575	- 13.4	18.2	23.9
31.	Kerr-McGee Corp.	890,812	854,246	+ 4.3	51,445	49,577	+ 3.8	1,806,938	1,634,640	+ 10.5	94,782	96,719	- 2.0	5.2	5.9
32.	Lear Petroleum	38,903	19,624	+ 98.2	356	1,714	- 79.2	105,072[4]	65,547[4]	+ 60.3	5,745[4]	5,340[4]	+ 7.6	5.5	8.1
33.	Louisiana L&E	298,141	258,436	+ 15.4	41,655	42,832	- 2.7	620,943	523,390	+ 18.6	92,217	94,425	- 2.3	14.9	18.0
34.	Mapco Inc.	505,373	450,799	+ 12.1	29,009	40,165	- 27.8	1,085,394	829,610	+ 30.8	54,444	71,461	- 23.8	5.0	8.6
35.	Marathon Oil	2,133,752	2,039,893	+ 4.6	86,602	108,325	- 20.1	4,557,850	4,305,261	+ 5.9	156,377	247,396	- 36.8	3.4	5.7
36.	Marion Corp.	110,576	137,253	- 19.4	(1,550)	4,956		228,462	237,105	- 3.6	3,668	8,953	- 59.0	1.6	3.8
37.	May Petroleum	10,494	5,757	+ 82.3	1,922	1,224	+ 57.0	19,751	11,083	+ 78.2	4,562	2,577	+ 77.0	23.1	23.3
38.	Maynard Oil	11,015	7,633	+ 44.3	1,613	1,245	+ 29.6	20,997	14,399	+ 45.8	3,929	2,276	+ 72.6	18.7	15.8
39.	McMoRan Oil & Gas	45,498	22,009	+106.7	10,775	6,792	+ 58.6	102,975	40,061	+ 157.0	24,629	12,062	+104.2	23.9	30.1
40.	Mesa Petroleum	100,911	94,949	+ 6.3	26,074	24,652	+ 5.8	204,535	201,880	+ 1.3	55,915	44,565	+ 25.5	27.3	22.1
41.	Mobil Corp.	16,600,000	15,400,000	+ 7.8	700,000	688,000	+ 1.7	33,700,000	30,700,000	+ 9.8	1,340,000	1,534,000	- 12.6	4.0	5.0
42.	Moran Energy	22,749	15,131	+ 50.3	4,541	2,630	+ 72.7	42,713	28,801	+ 48.3	8,908	4,830	+ 84.8	20.9	16.8
43.	Murphy Oil	660,021	454,838	+ 45.1	44,995	35,633	+ 26.3	1,326,827	1,024,083	+ 29.6	83,425	64,023	+ 30.3	6.3	6.3
44.	Natomas	370,276	336,676	+ 10.0	57,557	57,399	+ 0.3	735,706	626,796	+ 17.4	115,794	105,414	+ 9.8	15.7	16.8
45.	Noble Affiliates	93,402	67,265	+ 38.8	18,341	12,090	+ 51.7	180,905	134,849	+ 34.2	36,391	25,549	+ 42.4	20.1	18.9
46.	Nugget Oil Corp.[3]	464,315	388,146	+ 19.6	119,094	126,102	- 5.5	1,554,894[5]	1,265,861[5]	+ 22.8	249,902[5]	523,879[5]	- 52.3	16.1	41.4
47.	Pacific Resources	233,347	179,983	+ 29.6	2,793	4,871	- 42.7	464,729	386,943	+ 20.1	1,413	13,901	- 89.8	0.3	3.6
48.	Patrick Petroleum	31,033	13,347	+132.5	3,344	1,049	+218.8	78,728	42,341	+ 85.9	6,234	1,035	+502.3	7.9	2.4
49.	Peninsula Resources	5,522	3,512	+ 57.2	278	260	+ 6.9	10,671	6,852	+ 55.7	533	405	+ 31.6	5.0	6.0
50.	Pennzoil Co.	672,115	630,996	+ 6.5	57,981	76,542	- 24.2	1,360,103	1,243,901	+ 9.3	117,104	159,043	- 26.4	8.6	12.8
51.	Petroleum Development	3,199	4,876	- 34.4	258	350	- 26.3	6,464	8,364	- 22.7	614	840	- 26.9	9.5	10.0
52.	Phillips Petroleum	4,072,955	3,230,179	+ 26.1	229,767	214,849	+ 6.9	8,301,424	6,614,341	+ 25.5	500,551	499,263	+ 0.3	6.0	7.6
53.	Quaker State	219,919	200,891	+ 9.5	7,367	7,496	- 1.7	438,076	395,751	+ 10.7	11,003	14,375	- 23.5	2.5	3.6
54.	Sabine Corp.	42,992	30,253	+ 42.1	7,422	5,504	+ 34.8	85,435	58,328	+ 46.4	16,035	11,853	+ 35.3	18.8	20.3
55.	Seneca Oil	3,101	895	+247.0	927	16	+5611.0	5,812	2,730	+113.0	1,260	339	+271.0	22.0	12.0
56.	Shell Oil	5,554,000	4,895,000	+ 13.5	410,000	407,000	+ 1.4	10,967,000	9,693,000	+ 13.1	771,000	780,000	- 1.2	7.0	8.0
57.	Southland Royalty	104,647	67,060	+ 35.9	10,423	2,536	+ 75.7	200,327	129,730	+ 35.2	20,410	7,966	+ 61.0	10.2	6.1
58.	Southwestern Energy	11,026	8,931	+ 23.5	2,335	1,819	+ 28.4	32,033	26,929	+ 19.0	7,853	6,164	+ 27.4	24.5	22.9
59.	Standard California	10,979,000	10,649,000	+ 3.1	616,000	535,000	+ 15.1	22,967,000	21,096,000	+ 8.9	1,282,000	1,162,000	+ 10.3	5.6	5.5
60.	Standard Ohio	2,907,900	2,840,600	+ 2.4	478,700	451,300	+ 6.1	6,027,200	5,499,300	+ 10.0	999,100	902,000	+ 10.8	16.6	16.4
61.	Statex Petroleum[3]	2,356	1,596	+ 46.3	333	317	+ 4.9	4,840	2,839	+ 70.5	922	503	+ 83.1	19.0	17.7
62.	Sun Co.	3,900,000	3,000,000	+ 30.0	298,000	247,000	+ 20.7	7,900,000	6,100,000	+ 29.5	418,000	498,000	- 16.1	5.3	8.2
63.	Superior Oil	504,181	350,618	+ 43.8	99,295	68,635	+ 44.7	997,087	680,905	+ 46.4	207,255	137,001	+ 51.3	20.8	20.1
64.	Supron Energy	19,612	16,191	+ 21.1	5,160	4,625	+ 11.6	37,473	31,247	+ 19.9	10,121	9,235	+ 8.5	27.0	29.8
65.	Tenneco	3,776,000	3,201,000	+ 18.0	203,000	186,000	+ 9.1	7,585,000	6,517,000	+ 16.4	397,000	364,000	+ 9.1	5.2	5.6
66.	Texaco	14,799,000	12,537,300	+ 18.0	555,700	502,900	+ 10.5	30,258,400	25,786,200	+ 17.3	1,213,700	1,103,500	+ 10.0	4.0	4.3
67.	Tosco	866,915	598,264	+ 44.9	12,072	23,983	- 49.7	1,629,344	1,132,426	+ 43.9	(26,616)	46,6[illegible]2			4.1
68.	Transcontinental Energy	23,977	18,777	+ 27.7	2,981	174	+1613.2	46,421	36,767	+ 26.3	6,100	168	+3531.0	13.1	0.5
69.	Tribune Oil	657	465	+ 41.3	208	141	+ 47.5	1,220	937	+ 30.2	372	332	+ 12.0	30.5	35.4
70.	Union California	2,685,800	2,648,000	+ 1.4	207,900	194,800	+ 6.7	5,280,100	4,930,300	+ 7.1	362,400	347,700	+ 4.2	6.9	7.1
71.	Universal Resources	15,442	9,626	+ 60.4	3,513	1,638	+114.4	29,587	18,913	+ 56.4	6,321	2,846	+122.1	21.4	15.0
72.	Wilshire Oil of Texas	4,330	3,173	+ 36.5	1,402	672	+108.6	8,119	6,003	+ 35.2	2,205	1,425	+ 54.7	27.2	23.7
73.	Wiser Oil	16,528	14,949	+ 10.5	4,625	3,315	+ 39.5	33,440	30,061	+ 11.2	9,884	8,351	+ 18.3	29.6	27.8
74.	Woods Petroleum	16,055	12,880	+ 24.7	4,074	3,311	+ 23.0	32,432	24,848	+ 30.5	8,741	6,377	+ 37.1	27.0	25.7
TOTAL		131,425,765	116,286,626	+ 11.1	7,443,531	6,887,043	+ 8.1	270,418,667	238,989,039	+ 13.2	14,619,814	15,346,395	- 4.7	5.4	[illegible]

**Excluding non-recurring items. *Earnings available to common stock. †Earnings* divided by Revenues. [1]Ends May 31. [2]Ends January 31. [3]Ends April 30. [4]Nine months. [5]Twelve months. ()Loss.

Second Quarter Report

Clark Oil, Tosco and Pacific Resources all turned first quarter losses into second quarter profit as crude oil prices dropped about $3/bbl during second quarter and companies were able to recover more raw material and operating costs. Tosco said its ability to refine lower quality, less expensive crude strengthened refining margins.

Net income for Ashland Oil and Quaker State continued to drop from 1980 levels. Ashland said it is reducing higher priced inventories as crude oil prices are moderating.

Wooed and (at this writing) apparently won by DuPont Co. largely because of its coal reserves, Conoco attributed its decline in second quarter income mainly to a strike by United Mine Workers, which resulted in loss of $51.5 million on coal operations, compared to $37 million profit in second quarter 1980.

Exxon paid $1.16 billion of "windfall profits" tax alone in first half 1981. Other WPT totals: Standard Ohio, $813.3 million; Atlantic Richfield, $833 million; Shell Oil, $773 million; Standard California, $678 million; Texaco, $639.2 million; Gulf, $634 million; Mobil, $524 million.

Non-utility operations continued to lead gains in net income for large gas companies. Earnings for the survey group rose respectably in both second quarter and first half 1981.

Higher profits from oil/gas production led to first half improvement for Consolidated Natural Gas. Gas sales to industry have improved.

Exploration/production was largest income producer for ENSERCH in second quarter and oilfield services again showed biggest gain. Gas sales and income for Lone Star utility division rose because of greater sales to electric utilities and industry.

United Energy Resources' higher income levels reflected more gas sales at higher prices and stronger contract drilling operations.

Contract drilling has shown greatest percentage increase in profitability among ONEOK's subsidiaries.

Non-utility segments were source of earnings gains for Southern Union, more than offsetting lower earnings from gas utility operations.

All-time high results for Texas Oil & Gas were due to higher gas gathering volumes, higher levels of production and prices for company-owned gas, and good contract drilling results.

All operations for Texas Gas Transmission – pipeling, oil/gas production, trucking, inland waterways – were higher than in same 1980 period.

Higher utility earnings were chief factor in Pacific Lighting's first half improvement.

First half earnings for InterNorth were flat and second quarter earnings fell from same 1980 quarter. Business recession hurt gas sales, petrochemical and liquid fuels operations.

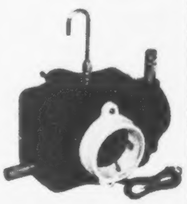
Lower than normal industrial activity also caused lower gas sales for Alabama-Tennessee.

Mountain Fuel Supply's first half earnings dropped from 1980 mainly because of less profitable utility operations. Oil exploration/production showed substantial gains.

CONTROL TIPS

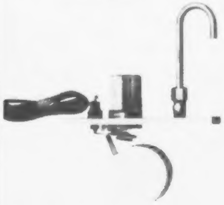
AUTOMATICALLY MAINTAIN SAFE CRANKCASE LEVELS.

LR-900



LR-900EX

LR-557



Automatically adds the proper amount of oil to your crankcase without shutting down the engine. Model LR-900 is recommended for use on any vented or non-vented crankcase. A metering device allows only the proper amount of oil to flow into the crankcase and features a safety switch to shut down the engine if the supply tank is depleted. The LR-557 is designed to keep proper levels in McCord and similar lubricators.
PAT. NO. 4038507

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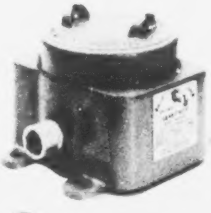
L-1200/L-1200N
FLOAT SWITCH

The L-1200 Float Switch is designed for level control on compressor scrubbers, pressure vessels, heater treaters, boilers or any process requiring liquid level monitoring. A rugged and dependable Snap Action, Float Actuated Level Switch, the L-1200 is designed especially to offer compact liquid level monitoring for medium to high pressure applications requiring "explosion proof" construction. All moving parts which come in contact with fluid are made of stainless steel to resist corrosion. Pneumatic Models combine same features with snap acting pilot valve
pat. no. 3970099

VIBRATION SWITCH DETECTS SEVERE EQUIPMENT OSCILLATION.

VS-2-EX
VIBRATION
SWITCH



This vibration and shock switch is sensitive to abnormal oscillation in three planes of motion and easily adjustable to detect any degree of abnormal vibration from heavy shocks — which occur if couplings parted on a pumping unit, to minute vibrations found on high frequency equipment.

The magnetic latching feature assures virtually no wear on the internal tripping mechanism. Whenever acceleration of the equipment exceeds the holding force of the magnet, the latching member is released and D.P.D.T. contacts, rated 5 amps at 480 V AC, are transferred. Pneumatic Model (VS-2-N) vents 20-80 psi supply for equipment shutdown.
PAT. NO. 3641290/3967493

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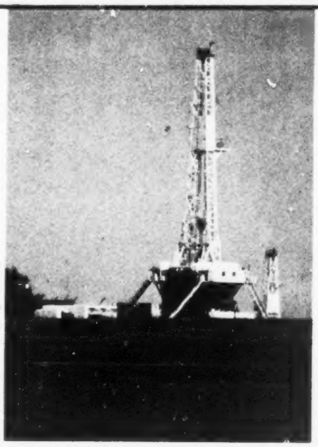
LAND RIG LOCATOR



URC Drilling Corp.'s new Rig 5 drills the O.L. No. 1A-25 well in busy Beckham County, for Universal Resources Corp.

DRAWWORKS MANUFACTURERS ABBREVIATIONS

Bethlehem Supply Co.	Beth
Bucyrus-Erie Co.	B. Erie
Cabot Corporation Machinery Division	Cabot/Franks
Cardwell Manufacturing Company Inc.	Crdwll
Challenger	Challenger
Continental-Emsco	EMSCO
Fred E. Cooper	Cooper
DeMag Manufacturing Co.	DeMag
Ewbank Manufacturing Div. Inc.	Ewbanks
George E. Failing Co.	Failing
Foramines	FORAMINES
Gardner-Denver	Gar-Den
Gary Drilling	Gary
Hacker Machine & Supply Co.	Hacker
Hooper Machine Works Inc.	Hooper
Howard-Turner Machine Works	Howard-Turner
Ideco Inc.	Ideco
Ingersoll-Rand Co.	Ingersoll
Joy Manufacturing Co.	Joy
Lee, Harold Engineering, The.	Lee
Mayhew Supply Co. Inc.	Mayhew
Justiss Mears Oil Co.	JFJ
Mid-Continent Supply	M-CSCO
National Supply	Natl
OIME	OIME
OILWELL Div. (U.S. Steel)	OILWELL
Pool Company	Pool
Salzgitter Maschinen Manufacturing Co.	Salzgitter
Skytop/Brewster	Brwstr
Spencer-Harris Machine & Tool Company	Spencer
Sullivan	Sullivan
Superior (DRECO Ltd.)	Superior
Unit Rig Company	Unit
Wagner-Morehouse Inc.	Wgnr-Mrhse
Walker-Neer Manufacturing Company Inc.	Wlkr-Nr
The Wheland Company	Whlnd
Wichtex Machinery Co. Inc.	Wichtex
Wilson Manufacturing Co. Inc.	Wlsn

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CARAWAY FRANK DRLG CO P O Box 982 San Angelo TX 76902 915-655-7968
CARDINAL DRLG CO P O Box 1077 Billings MT 59103
CARTER DEVELOPMENT CORP 1516 Two Turtle Creek Village Dallas TX 75219 214-521-9580
CARTER LAND & CATTLE CO P O Box 814 Chanute KS 66720 316-431-2080
CASTER WELL DRLG INC Forest Ave Ext Jamestown NY 14701 716-484-7436
CENTENNIAL EXPL & DRLG CO 2323 S Voss Rd Ste 370 Houston TX 77057 713-789-9475
C-G DRLG CO 340 Broadway Plaza Bldg 105 S Broadway Wichita KS 67202
CHALLENGER DRLG INC 340 East North Belt Suite 140 Houston TX 77060 713-820-9700
CHEROKEE DRLG & DEV CORP P O Box 2381 Midland TX 79702 915-563-1516
CHEROKEE DRLG & OPERATING INC Rte 2 Box 44AA Lowell OH 45744 614-373-6384
CHESLEY PRUET DRLG CO P O Box 447 Laurel MS 39440 601-649-1200
CHICO DRLG CO 808 Commerce Bldg Fort Worth TX 76102 817-336-8688
CHILES DRLG CO 5100 Westheimer Ste 135 Houston TX 77056 713-621-4991
CINCO DRLG CO P O Box 2089 Alice TX 78332 512-664-9556
CIRCLE BAR DRLG CO 2-3-4 Loyola Bldg Ste 505 New Orleans LA 70112 504-581-5502
CLEVELAND DRLG CO 305-4800 Stockdale Hwy Ste 30 Bakersfield CA 93309 805-327-5268
CLIFFS DRLG CO 2-Allen Center Ste 3150 Houston TX 77002 713-651-9426
COLEMAN DRLG CO P O Drawer 3337 Farmington NM 87401 505-325-6892
COMANCHE DRLG CO P O Box 636 Cut Bank MT 59427
COMANCHE DRLG INC Rte 2 Box 44AA Lowell OH 45744 614-373-6384
COMANCHE DRLG LTD 1625 Broadway St Ste 530 Denver CO 80293 303-629-5551
COMET DRLG CO P O Box 51529 Lafayette LA 70505 318-233-0414
COMMERCIAL DRILLERS INC 329 Mid America Bldg Midland TX 79701 915-684-4592
COMPADRE DRLG & EXPL CORP P O Box 97 Ardmore OK 73401 405-223-3127
CORPUS CHRISTI DRLG CO 4605 Weiskopf Lane Corpus Christi TX 74813 512-852-7642
CRAWFORD DRLG CO Rte 3 Box 254 Brenham TX 77833 713-836-1247
CRC MALLARD WELL INC P O Drawer 51498 OCS Lafayette LA 70505 318-233-4922
CRESCENT DRLG CO P O Box 626 Calhoun Rd Owensboro KY 42301 502-926-4656
CULVER DRLG CO 3910 Cameron St Lafayette LA 75006 318-269-0088
CYCLONE DRLG & WORKOVER INC Rte 2 Box 31 Stroud OK 74079 918-968-3551
CYCLONE DRLG INC P O Box 246 Gillette WY 82716 307-682-4161

D

DAHLQUIST DRLG INC P O Box 602 Bakersfield CA 93302 805-327-1275
DAKOTA DRILLERS INC P O Box 936 Pierre SD 57501 605-224-8393
DAMAC DRLG CO P O Box 1164 Great Bend KS 67530 316-792-1353
D & D DRLG CO P O Box 351 Ferriday LA 71334 318-757-3274
D L DAVIS DRLG CO P O Box 570 Mt Carmel IL 62863 618-262-7624
D B DRLG CORP 100 Chestnut Abilene TX 79602 915-672-2841
DELTA DRLG CO P O Box 2012 Tyler TX 75710 214-595-1911
DIXILYN-FIELD DRLG CO P O Box 4251 Houston TX 77210 713-877-8850
DIXON DRLG CO P O Box 2773 Abilene TX 79604 915-676-8564
DNB DRLG INC 515 R H Garvey Wichita KS 67202 316-264-8328
DOSS INC P O Box 542 Van Vleck TX 77482 713-245-1711
DREILING OIL INC Rte 1 Victoria KS 67671 913-735-2204
DRILCON INC 8150 N Central Expwy Ste 1255 Campbell Centre II Dallas TX 75206 713-780-8772
DRILLERS INC 5629 FM 1960 W Ste 202 Houston TX 77069 713-893-1020
DUAL DRLG CO P O Box 240 Wichita Falls TX 76307 817-723-2127
DUKE DRLG CO P O Box 823 Great Bend KS 67530 316-793-8366
DUNNE-GARDNER PETROLEUM INC 200 W Douglas Ste 250 Wichita KS 67202 316-265-1611

E

EAGLE DRLG CO 114 Jefferson Davis Blvd Natchez MS 39120 601-445-8863
EAGLE DRLG INC P O Box 8609 Wichita KS 67208 316-682-5513
EAGLE PRODUCTION & DRLG SERV 3626 N Hall St Dallas TX 75219 214-521-0021
EARL & SONS DRLG INC P O Box 3 Cedar Crest NM 87008 504-281-3880
EARNEST INC P O Box 1216 Okmulgee OK 74447 918-756-2616
ECONOMY DRLG INC P O Box 35 Converse TX 78109 512-659-1977
EDCO DRLG CO P O Box 645 El Dorado KS 67042 316-321-9202
EDWARDS WELL SERV 7001 Fruitvale Extension Bakersfield CA 93308
ELENBURG EXPL INC P O Box 1850 Havre MT 59501 406-265-5811
ELJAY DRLG CORP 8955 Katy Fwy Ste 101 Houston TX 77024 713-932-6771
E & H DRLG CO P O Box 1058 Graham TX 76046 817-549-0370
ENERGY DRLG CO P O Box 905 Natchez MS 39120 601-446-5259
ENOPCO 12700 Park Central Pl Ste 1204 Dallas TX 75251 214-387-8503
EQUITY DRLG CO 3850 E Frank Phillips Blvd Bartlesville OK 74003 918-534-1700
EXCELL DRLG CO P O Box 305 Wray CO 80758 303-332-4123
EXETER DRLG NORTHERN INC P O Box 17349 Denver CO 80217 303-861-0181
EXETER DRLG SOUTHERN INC 1010 Common St 2635 Bank Bldg New Orleans LA 70112 505-581-1498
EXPLORER DRLG CO P O Box 53897 Lafayette LA 70505 318-981-2886

F

FAIRMAN DRLG CO P O Box 288 Dubois PA 15801 814-371-8410
FAITH DRLG CO P O Box 7 Houston TX 77001 713-524-7111
FALCON DRLG CO 1700 SE 22 Second Oklahoma City OK 73129 405-670-3161
FARMER JOHN O INC P O Box 352 Russell KS 67665 913-483-3144
FARNSWORTH & KAISER DRLG CO 13 S Seneca Newcastle WY 82701 307-746-2591
FAULK DRLG CO P O Box 429 Breckenridge TX 817-559-3744
FELDERHOFF BROS DRLG CO P O Drawer 400 Muenster TX 76252 817-665-3592
FINLEY OIL WELL SERV INC P O Box 7296 Long Beach CA 90807 213-595-4505
FISCUS DRLG CO Rte 1 Box 572-A Big Spring TX 79720 915-393-5211
FISHER DRLG CORP 10 E Third St Ste 520 Tulsa OK 74103 918-582-4457
FLOURNOY DRLG CO P O Box 491 Alice TX 78332 512-668-8364
FOREX NEPTUNE &/OR AFFILIATES 20 Ave Rapp BP 111 07 75326 Paris Cedex France 555-95-34
FORWEST INC 11211 Katy Fwy Ste 530 Houston TX 77079 713-932-7976
FOUR CORNERS DRLG CO P O Box 1067 Farmington NM 87401 505-327-0322
FRANCE DRLG CORP 700 Travis Place Shreveport LA 71101 318-221-3434
FRANKLIN DRLG INC P O Box 336 Graham TX 76046 817-549-5661
FREEMAN DRLG CO 251 N Water Ste 10 Wichita KS 67202 316-263-7049
FRIO DRLG CO 1216 Guaranty Bank Plaza Corpus Christi TX 78475 512-883-8555
F-W DRLG CO 4350 S Treadaway Abilene TX 79602 915-695-2064
FWA DRLG CO P O Box 419 Wichita Falls TX 76307 817-322-0761

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Drilling Contractors With Rotary Land Rigs In U.S.

G

GABBERT-JONES INC 830 Sutton Place Wichita KS 67202 316-263-6209
GALLAGHER DRLG INC P O Box 3046 Evansville IN 47702 812-425-8256
G-E DRLG CO 2711 Continental Dr Victoria TX 77901 512-578-5245
GARY DRLG CO 7001 Fruitvale Extension Bakersfield CA 93308 805-589-0111
GAY DRLG CONTRACTORS P O Box 457 Duncan OK 73533 405-255-2528
GCO DRLG CO P O Box 3134 Abilene TX 79604 915-673-4731
GEAR DRLG CO 470 Denver Club Bldg Denver CO 80202 303-623-4422
GENERAL WELL SERV INC P O Box 308 Cut Bank MT 59427 406-873-2331
GIBSON DRLG CO P O Box 1540 Kilgore TX 75662 214-984-5068
GIBSON J W WELL SERV CO 3025 S Parker Rd Ste 711 Aurora CO 80014 303-752-2527
GLASSCOCK DRLG INC P O Box 51716 OCS Lafayette LA 70505 318-232-8620
GLENDEL DRLG CO P O Box 765 Abbeville LA 70510 318-898-1637
GLOBE DRLG CO 1212 The Peoples Plaza Tower Tyler TX 75702 214-593-0281
GOLDEN STATE DRLG INC 3312 Fruitvale Ave Bakersfield CA 93308 805-589-0730
GOLDRUS DRLG CO 900 First City National Bank Houston TX 77002 713-658-9271
GOPHER DRLG CO P O Box 949 Thicket TX 77374 713-298-2511
GRAVES DRLG CO 910 Union Center Wichita KS 67202 318-233-4400
GREAT SOUTHERN OIL & GAS CO P O Box 52707 Lafayette LA 70505 318-233-4400
GREEN DRLG CO P O Box 667 Gillette WY 82716 307-686-1381
GREY WOLF DRLG CO 2000 S Post Oak Rd Ste 1730 Houston TX 77056 713-626-1373
GUFFEY-SCHLENSKER DRLG CORP P O Box 1330 Richardson TX 75080 214-231-8551
GUTHRIE MC LAREN DRLG LTD 14630 119th Ave Edmonton Alberta T5L 2P2 Canada 403-455-3191
GWALTNEY DRLG CO P O Box 520 Washington IN 47501 812-254-5085

H

HACK DRLG CO P O Box 5108 Abilene TX 79605 915-692-4111
H & S DRLG CO 320 S Boston Ste 2000 Tulsa OK 74103 918-587-8163
HARKINS & CO P O Box 1490 Alice TX 78332 512-883-3022
HARPEL DRLG CO P O Box 2811 Casper WY 82602 307-265-9193
HARPER-TURNER DRLG 904 Hightower Oklahoma City OK 73102 403-232-3241
HARRIS DRLG CO Box 99 Hwy 15 Grayville IL 62844 618-375-2211
HARRIS WELL SERV INC P O Drawer 949 Eunice LA 70535 318-457-3376
H F HATCHER & SON P O Box 167 Smackover AR 71762 501-725-3034
HELMERICH & PAYNE INTL DRLG Utica at 21st Tulsa OK 74114 918-742-5531
HEMPHILL CORP 4834 S 83rd E Ave Tulsa OK 74145 918-622-5133
HERB EXPL P O Box 1934 Abilene TX 79604 915-672-1291
HI TOWER DRLG Box 6650 Station D Calgary Alberta T2P 2V8 Canada 403-231-1211
HICKMAN DRLG CO P O Box 1467 Woodward OK 73801 405-256-8688
HILLIN DRLG CO P O Box 152 Odessa TX 79760 915-563-3560
HINTON W B DRLG CO P O Box 1237 Mt Pleasant TX 72455
HOLLIDAY DRLG INC P O Box 3489 Midland TX 79701 915-697-2208
HONDO DRLG CO P O Drawer 2516 Midland TX 79702 915-682-9401
HONEYMON DRLG CO 4300 Highline Blvd Ste 356 P O Box 74506 Oklahoma City OK 73147 405-947-2319
HOWELL DRLG INC 635 Milam Bldg San Antonio TX 78205 512-227-5283
H-30 DRLG INC 251 N Water Wichita KS 67202 316-263-2043
HUDSON LEONARD DRLG CO INC P O Box 1876 Pampa TX 79065 806-665-1816
HUGHES DRLG CO Rte 4 Box 38-A Enid OK 73701 405-234-7222
HURT CLINT & ASSOCIATES INC P O Box 1973 Midland TX 79702 915-683-6381
HUSKY DRLG CO 200 E First Ste 500 Wichita KS 67202 316-263-7904
HYLTON DRLG CO 7512 Kimberly Ave Bakersfield CA 93308 713-659-4816

I

INLAND WELL SERV INC P O Box 488 Abbeville LA 318-893-3486
INTERNATIONAL PETROLEUM SERV CO P O Box 547 Rte 6 N Sheffield PA 16347 814-968-3295
IRON DRLG CO P O Box 3525 3201 S Van Buren Enid OK 73701 405-234-1292
IRONWOOD DRLG INC 1021 ESE Loop 323 Ste 350 Tyler TX 75703 214-561-5026
ITT EASON OIL CO 2601 NW Expwy Oil Center East Ste 1100E Oklahoma City OK 73112 405-848-8711
IX DRLG CO P O Drawer 835 Stephenville TX 76401 817-965-7818

J

J & C DRLG CO P O Box 216 Refugio TX 78377 512-526-2376
J & W DRLG CO 1717 9th St Wichita Falls TX 76301 817-767-5447
JOHNN DRLG CO P O Box 6189 Odessa TX 79762 915-563-1280
JOHNSON-BATES DRLG CO P O Box 128 Konawa OK 74849 405-925-3256
JONES DRLG CO P O Box 1058 Albany TX 76430 915-762-3652
JONES DRLG CORP P O Box 1185 Duncan OK 73533 405-255-3532
J3 DRLG CO 1450 Bank & Trust Corpus Christi TX 78477 512-881-9773
JUSTISS OIL CO P O Drawer N Jena LA 71342 318-992-4111
J-V DRLG CO 4445 Commerce ST Evansville IN 47710 812-424-3571

K

KAN-GO INC P O Box 254 Marion KS 66861 316-382-2665
KAY DRLG CO P O Box 1622 Ponca City OK 74601 405-765-2407
K B DRLG CO P O Box 1848 Harve MT 59501 406-265-9832
K L KELLOGG & SONS P O Box 7053 4220 Long Beach Blvd Long Beach CA 90807 213-422-1247
KENAI DRLG OF NEW MEXICO INC 5700 N Lovington Hwy Hobbs NM 88240
KENAI DRLG OF TEXAS INC P O Box 6725 Odessa TX 79762 915-362-2323
KENAI DRLG ROCKY MOUNTAIN INC P O Box 1198 Mills WY 88240 307-234-5122
KENAI DRLG WEST COAST INC P O Box 2248 Orcutt CA 93454 805-928-1701
KENDALL DRLG CO P O Box 5304 Evansville IN 47715 812-477-5535
KENTING DRLG CO 370 700 Sixth Ave SW Calgary Alberta T2P 0T8 Canada 403-263-2980
KERN DRLG CO P O Box 688 Magnolia AR 71753 501-234-5011
KINGERY DRLG CO P O Box 1588 Ardmore OK 73401 405-223-6823
KISSINGER PETROLEUM CORP P O Box 22004 Denver CO 80222 303-773-0550
LAGERSEN DRLG CO 302 Beck Bldg Shreveport LA 71101 318-227-9939
LAMA DRLG CO P O Box 430 Natchez MS 39120 601-445-5568
LANDFORD DRLG CO P O Box 98 Shreveport LA 71161 318-869-2519
L & G DRLG CO P O Box 35 Mt Pleasant MI 48858 517-772-3083
LANDIS DRLG CO P O Box 3579 One Marienfeld Place Ste 350 Midland TX 79702 915-683-4151
L & M DRLG INC P O Box 647 Artesia NM 88210 505-748-2205

L (Contd)

L & R DRLG CO P O Box 936 Pierre SD 57501 605-224-2467
LAUCK D R OIL CO 221 S Broadway Ste 400 Wichita KS 67202 316-363-8267
LAYTON OIL CO P O Box 263 Independence KS 67301 316-331-1150
L D DRLG CO P O Box 324 Great Bend KS 67530 316-793-3051
LEMKCO DRLG CO 6767 Golden West Ave Red Deer Alberta T4P 1A7 Canada 403-342-4200
LESTER DAN DRLG CO P O Drawer N Jefferson TX 75657 214-665-2511
LIN-MOUR DRLG CORP 1411 13th St Wichita Falls TX 76301 817-322-8550
LLL DRLG CO P O Box 188 Bloomfield NM 87413 505-632-8045
LOFFLAND BROS CO P O Box 2847 Tulsa OK 74101 918-622-9330
LOGAN DRLG CO P O Box 1622 100 S Washington Enid OK 73701 405-233-5048
LOHMANN-JOHNSON DRLG CO 111 Main St Evansville IN 47708 812-424-8291
LORD DRLG CO 14618 W Sixth Ave Golden CO 80401 303-279-2471
LOUISE DRLG CO P O Box 272 Louise TX 77455 713-648-2641
LOWE DRLG CO P O Box 1368 Albany TX 76430 915-762-2530
LUKE GRACE CO 710 Petroleum Bldg Wichita Falls TX 76301 817-723-2187

M

MAGEE-POOLE DRLG CO P O Box 2000 Alice TX 78332 512-664-1891
MAGIC CIRCLE DRLG CORP 3001 United Founders Blvd Oklahoma City OK 73112 405-843-6654
MANNING R L CO 1700 Broadway Ste 2200 United Bank Center Denver CO 80290 303-839-1977
MARION DRLG CO P O Box 16006 Mobile AL 36616 205-626-3300
MARLIN DRLG CO P O Box 51887 OCS Lafayette LA 70501 318-837-2781
MARLIN WEST P O Box 551 Bakersfield CA 93302 805-327-8304
MAR-TAY DRLG CO P O Box 1216 Drumright OK 74030 918-352-3802
MATAGORDA MARINE DRLG CO P O Box 10307 Corpus Christi TX 78410 512-289-1366
MAXWELL HERRING DRLG CO P O Box 1297 Tyler TX 75710 214-593-1737
MAZ KAR OIL CO 126 W Broadway Centralia IL 62801 618-532-9327
MC CONNELL DRLG CO 111 Frio St Lockhart TX 78644 512-389-2627
MC CUTCHEN DRLG CO 410 Oil & Gas Bldg Wichita Falls TX 76301 817-322-9231
MC DONALD & SON DRLG CO SSRB Box 68 Marble Falls TX 78654 512-598-5731
MC LENNAN DRLG CO P O Box 6 Nowata OK 74048 918-273-1265
MC VAY DRLG CO 308 Philtower Bldg Tulsa OK 74103 918-584-5472
MEGARGEL DRLG CO P O Box 356 Megargel TX 76370 817-563-2311
MELTON DRLG CO 7101 Downing Ave Bakersfield CA 93308 805-587-0521
MERCURY DRLG CO 1701 SE 25th St Oklahoma City OK 73129 405-672-4441
MERIT DRLG CO 14811 St Mary's Lane Ste 148 Houston TX 77079 713-493-1001
MESA DRILLERS P O Box 108 Lubbock TX 79408 806-744-1017
MESA DRLG CO 241 Pine One Energy Square Ste 7A Abilene TX 79601 915-673-4787
MGF DRLG CO-HOUSTON 2626 Richmond Ave Houston TX 77098 3-526-7236
MGF DRLG CO-LAFAYETTE P O Box 938 Scott LA 70583 318-237-6161
MGF DRLG CO-MIDLAND P O Box 370 Midland TX 79701 915-684-7173
MHC DRLG CO P O Box 399 Rio Vista CA 94571 707-374-2425
MICHIGAN CONSOLIDATED GAS CO P O Box 1118 218 Maple St Big Rapids MI 49307 616-796-3501
MID ATLANTIC OIL CO P O Box 198 Belle Valley OH 43717 614-732-5674
MIDCO DRLG INC 200 E First Ste 520 Wichita KS 67202 316-265-1808
MIDWEST DRLG LTD 1026 Cookson Ave New Philadelphia OH 44663 216-339-5515
MILLER CONTRACT DRLG INC P O Box 478 Livingston TN 38570 615-823-6425
MILLER DRLG CO Rte 45 Box 450 Fort Smith AR 72901 501-646-3481
MIN-TEX DRLG CORP P O Box 1136 Mineral Wells TX 76067 817-325-9591
MITCHELL GEORGE N DRLG CO P O Drawer 111 Airport Rd Carmi IL 62821 618-382-2343
MND DRLG CORP P O Box 248 Bridgeport TX 76026 817-683-5106
MOLEN DRLG CO P O Box 869 Billings MT 59103 406-259-2591
MONTGOMERY DRLG CO P O Box 2508 Bakersfield CA 93303 805-327-5736
MORAN BROS INC 1105 Holliday Wichita Falls TX 76301 817-723-1432
MORAN DRLG CORP 262 Northbelt Houston TX 77060 713-820-1865
MORAN E W DRLG CO 1200 Oil & Gas Bldg Wichita Falls TX 76301 817-322-7891
MORANCO P O Box 1860 Hobbs NM 88240 505-393-7176
MORRISON DRLG & PROD CO One Energy Square Ste 8-B Abilene TX 79601 915-677-8523
MORROW DRLG CO P O Box 4936 Odessa TX 79760 915-333-2875
MOSLEY WELL SERV INC P O Box 970 Minden LA 71055 318-377-2393
MOXE DRLG CO 106 W Eighth McCook NE 69001 308-345-2945
MURCO DRLG CORP 1908 Beck Bldg Shreveport LA 71101 318-221-7373
MURFIN DRLG CO 617 Union Center Bldg Wichita KS 67202 316-267-3241
MURLYNSON DRLG CO P O Box 185 Alice TX 78332 512-664-3807
MURPHY PETE DRLG CO P O Box 185 Alice TX 78332 512-664-4540
MUTUAL OF AMERICA INC P O Drawer 1446 Santa Fe NM 87501 505-982-5501

N

NABORS ALASKA DRLG INC 4796 Business Park Blvd Ste 1 Anchorage AK 99503 907-278-2511
N & C DRLG CORP Rte 3 Box 3361 Boerne TX 78006 512-755-8333
NECK DRLG CO Bin X Taft CA 93268 805-769-8811
NELSON DRLG & WELL SERV 1325 American Tower Shreveport LA 71101 318-221-6890
NEW & HUGHES DRLG CO P O Drawer 1487 Natchez MS 39120 601-442-1607
NICKLOS DRLG CO P O Box 752 Eunice LA 70535 713-658-8245
NICOR DRLG CO 300 Reunion Center 9 E Fourth St Tulsa OK 74103 918-587-5507
NIXON DRLG CO P O Box 632 Luling TX 78648 512-875-2416
NIXON R P 207 W 12th St Hays KS 67601 913-628-3834
NOBLE DRLG CORP 1924 S Utica Ste 600 Tulsa OK 74104 918-749-9901
NORMAN DRLG CO Rte 8 Box 305 Clarksville TN 37040 615-645-4361
NORTHEAST DRLG CO Rte 4 Box 38-A Enid OK 73701 405-234-6771
NORTON DRLG CO 607 Lubbock Natl Bank Bldg Lubbock TX 79401 806-747-3324
NORWOOD A N INC P O Box 310 Midland TX 79702 915-683-3972
NRG DRLG CO P O Box 1432 Owensboro KY 42301 502-685-8118

O

O'CONNOR & YOUNG DRLG CO 1980 S Post Oak Rd Ste 2380 Houston TX 77056 713-961-1107
OILWELL DRLG INC Hwy 16S P O Box 988 Graham TX 76046 817-549-6960
OLIVER E L DRLG CO P O Box 25103 Oklahoma City OK 73125 405-677-2461
O'NEAL DRLG CO P O Box 20667 Oklahoma City OK 73120 405-751-3939
OWEN DRLG CO P O Box 861 Magnolia AR 71753 501-234-6300
OWENS JACK SERV CO 1626 Del Dayo Dr Carmichael CA 90608 916-485-8995

Drilling Contractors With Rotary Land Rigs In U.S.

P

PADRE DRLG CO 2501 Suntide Rd Corpus Christi TX 79410 512-241-2891
PAR-CO DRLG INC P O Box 873 Natchez MS 39120 601-442-6421
PARAMOUNT DRLG CO P O Box 1735 Shreveport LA 71166 318-227-8313
PARKER DRLG CO 8 E Third St Tulsa OK 74103 918-585-8221
PEARL EXPL INC P O Box 2179 Alice TX 78332 512-664-2701
PENROD DRLG CO 1407 Main St Dallas TX 75202 214-651-0187
PEP DRLG CO P O Box 824 Mt Vernon IL 62864 618-242-2205
PETERS DRLG INC P O Box 742 Great Bend KS 67530 316-793-6721
PETRA DRLG P O Box 3596 Tulsa OK 74101 918-627-1650
PETROWELL CORP WOLFCAMP DRLG DIV 9 Canyon Crest Dr Corona Del Mar CA 92625 714-760-8651
PICKRELL DRLG CO 110 N Market Ste 205 Wichita KS 67202 316-262-8427
PILGRIM DRLG CO 6733 S Yale Ave Tulsa OK 74136 918-743-6652
POOL WELL SERV 2077 S Gessner Rd Houston TX 77063 713-780-4999
PORTER GENE DRLG CO P O Box 389 Cushing OK 74023
POWER RIG DRLG CO P O Box 52808 Lafayette LA 70505 318-234-4525
PRAIRIE DRLG CO 5720 W Yellowstone Casper WY 82601 307-234-7191
PRC DRLG CO P O Box 1121 Corpus Christi TX 78403 512-884-8763
PRECISION EXPL CO P O Box 278 Olney IL 62450 618-395-3096
PROJECT 5 DRLG CO 2212 Briggs St Norman OK 73069 405-360-4810
PROVINS D DRLG CO 2113 Enterprise Dr Mt Pleasant MI 48858 517-773-6946
PRUET-RAM CO P O Box 324 Laurel MS 39440 501-863-3612
PULLIAM DRLG CO P O Box 1104 Woodward OK 73801 405-256-4000
PYRAMID OIL WELL SERV P O Box 3225 Santa Fe Springs CA 90670 213-944-6703

Q

QUANZA DRLG INC 3824 N Meridian Ste 110 Oklahoma City OK 73112 405-942-7900
QUARLES DRLG CORP 320 S Boston Ste 1024 Tulsa OK 74103 918-583-3004
QUINTEX DRLG CO 1647 E Third ST Tulsa OK 74120 918-589-7623

R

RBI DRLG CO LTD 1200 Milam St Ste 3200 Houston TX 77027
RAINBOW DRLG CO P O Box 1779 1108 N Kilgore St Kilgore TX 75662 214-984-8516
RAINS & WILLIAMSON OIL CO 222 W Douglas Ste 435 Wichita KS 67202 316-265-9686
RAM DRLG CO P O Box 118 Browns IL 62818 618-446-5117
RANGE DRLG CO 240 Page Ct 220 W Douglas Wichita KA 67202 316-265-6231
RAPAD DRLG CO P O Box 324 Laurel MS 39440 501-863-3612
RATLIFF DRLG CO P O Box 988 1510 W Main St Duncan OK 73529 405-255-2916
RAY RESOURCES CORP P O Box 235 Culloden WV 25510 304-743-9067
REBEL DRLG CO P O Box 1151 Natchez MS 39120 601-446-7831
RED TIGER DRLG CO 1720 Kansas State Bank Bldg Wichita KS 76202 316-263-2371
REMCO DRLG CORP 4131 Meadow Land Bossier City LA 71111 318-742-9595
REPCO INC P O Box 325 Duncan OK 73533 405-252-3005
REPUBLIC DRLG & SERV INC P O Box 27406 Houston TX 77056 713-877-8777
REPUBLIC DRLG CO 11823 E Slawson Ave Santa Fe Springs CA 90670 213-945-3661
RESOURCE DRLG INC P O Box 4341 Houston TX 77210
RHODES & HICKS DRLG CO P O Box 1579 Alice TX 78332 512-664-3467
RICHARDS-ARMSTRONG INC P O Box 1149 Bay City TX 77414 713-245-8389
RICHARDS DRLG ASSOCIATES P O Box 1149 Bay City TX 77414 713-245-8389
RICHARDS DRLG CO P O Box 1149 Bay City TX 77414 713-245-8389
RICHARDS OPERATING P O Box 1149 Bay City TX 77414 713-245-8389
RILEY DRLG CO 907 Scurry Big Spring TX 79720 915-267-5635
RINE DRLG CO 300 W Douglas Ste 600 Wichita KS 67202 316-267-1333
RIO COLORADO DRLG CO 330 North Belt East Ste 100 Houston TX 77060 713-445-2231
ROBINSON BROS DRLG CO P O Box 1027 Woodward OK 73801 405-254-3365
ROBINSON DRLG OF TEXAS INC P O Box 311 Big Spring TX 79720 915-267-5277
ROCKHOLD ENGRG INC P O Box 698 Great Bend KS 67530 316-729-2506
ROCKWELL DRLG CO P O Box 993 400 W Fifth St Holdenville OK 74848
RODEN J B DRLG CO P O Box 880 Mills WY 82644 307-266-6552
ROD RIC CORP P O Box 1767 Midland TX 79702 915-682-7880
ROSAMOND DRLG CO P O Box 7656 West Monroe LA 71203 318-323-7736
ROTARY DRLG INC 117 E Elm Tyler TX 75702 214-592-8174
ROWAN DRLG-US 5051 Westheimer Houston TX 77056 713-621-7800
ROYCO DRLG CO P O Box 681 Owensboro KY 42301 502-685-3687
RWIT DRLG CO P O Box 551 Holdenville OK 74848 713-496-5000

S

SABRE DRLG CO Div TRG Drlg Corp P O Box 1150 Cushing OK 74023 918-225-3502
SAFARI DRLG CORP P O Box 3236 Abilene TX 79604 915-677-2826
SAGE DRLG CO 222 Sutton Place Wichita KS 67202 316-263-6139
S & T DRLG LTD 5825 98 St Edmonton Alberta T6E 3L4 Canada 403-437-1640
SAN JACINTO DRLG CO 2014 Persa St Houston TX 77019 713-227-5353
SANDERS DRLG CO P O Box 1086 New Iberia LA 70560 318-364-1537
SANDIA DRLG CO 2500 Broadway Bldg Ste 5-B Edmond OK 73034 405-340-0210
SANTA FE DRLG CO 505 S Main St Orange CA 92668 714-558-1300
SANTA FE DRLG CO (WESTERN) P O Box 992 Odessa TX 79760 915-367-4181
SAWYER DRLG & SERV INC P O Box 1533 Shreveport LA 71105 318-227-8150
SCANDINAVIAN MONTGOMERY DRLG P O Box 2508 Bakersfield CA 93303 805-327-5736
SCHLENSKER DRLG CORP P O Box 1330 Richardson TX 75080 214-231-8551
SCOTT DON DRLG CO P O Box 177 Jonesville MI 49250 517-849-9237
SCOTT JERRY DRLG CO P O Box 1488 Seminole OK 74868 405-382-2202
SEARCH DRLG CO Wellington Sq Office Park Ste 400 Amarillo TX 79102 806-359-7645
SERVICE DRLG CO Fourth Natl Bank Bldg Ste 1800 Tulsa OK 74119 918-582-9141
SERVICE DRLG CO P O Box 5320 Borger TX 79007 806-273-7573
SH & J DRLG CORP P O Drawer 888 Magnolia AR 71753 501-234-4600
SHARP DRLG CO P O Box 1271 Midland TX 79702 915-683-3384
SHAWNEE DRLG CO Rte 2 Box 44AA Lowell OH 45744 614-373-6384
SHELBY DRLG INC 2830 Security Life Bldg Denver CO 80202 303-629-7035
SHIELDS DRLG CO P O Box 709 Russell KS 67665 913-483-3141
SHULER DRLG CO 3514 W Hillsboro El Dorado AR 71730 501-863-7234
SIMMONS DRLG LTD 524 550 Sixth Ave SW Calgary Alberta T2P 0S2 Canada 403-263-7686
SITTON DRLG CO 503 Lubbock Natl Bank Bldg Lubbock TX 79401 806-763-4442
SLAWSON DRLG CO 200 Douglas Bldg Wichita KS 67202 316-263-3201

S (Contd)

SLEDGE DRLG CORP First Natl Bank Ste 2301 Midland TX 79701 915-683-5261
SLOAN DRLG CO 2825 E Skelly Dr Ste 827 Tulsa OK 74105 918-749-0533
SMART DRLG CO 9 E Fourth St Tulsa OK 74103 918-584-5596
SMITH DRLG CO P O Box 150 Lawrenceville IL 62439 618-943-2342
SNYDER DRLG WELL SERV CO P O Box E Hwy 1 S Grayville IL 62844 618-375-2491
SOAPE DRLG CO P O Box 1284 Billings MT 59103 406-252-1341
SOJOURNER DRLG CORP P O Box 3234 Abilene TX 79604 915-672-2832
SOUTH TEXAS DRLG CO 2005 Alamo Natl Bldg San Antonio TX 78205 512-224-5557
SOUTHLAND DRLG CO 14811 St Mary's Ste 270 Houston TX 77079 713-497-1995
STAHLCO DRLG CO P O Box 2231 Amarillo TX 79105 806-376-5038
STAR DRLG 2700 Anaconda Tower Denver CO 80202 303-571-4800
STERLING DRLG CO P O Drawer 3068 Midland TX 79702 915-685-3054
STERLING DRLG CO P O Box 129 Sterling KS 67579 316-278-2131
STOEPPELWERTH DRLG INC 1111 E H McCook NE 69001 308-345-1766
STONE M L DRLG CO P O Box 299 Saratoga TX 77585 713-298-2511
STRATA DRLG INC P O Box 355 Great Bend KS 67530 316-793-7971
SUMPTER & BARKER DRLG CO P O Box 1081 Stillwater OK 74074 405-372-4063
SUNDOWN DRLG CO P O Drawer AP Eagle Pass TX 75852 512-773-1173
SWEETMAN DRLG INC 410 One Main Place Wichita KS 67202 316-265-5561
SYNTEK DRLG CORP One Energy Square Ste 10-LB Abilene TX 79605 915-677-8515

T

T-L DRLG CO 414 W Phillips Ste 137 Conroe TX 77301 713-756-7726
TAHOE DRLG CO 206 N Main Midland TX 79701 915-682-5325
TAYLOR DRLG CO P O Box 597 Chehalis WA 98532 206-748-3445
TEK DRLG CO 1224 Josey Lane Ste B Carrollton TX 75006 214-242-8314
TESORO DRLG CO P O Box 2784 Laurel MS 39440 601-425-4312
TEXAS DRLG CO Abilene Natl Bank Bldg Ste 400 Abilene TX 79603 915-672-7803
TEXLAND DRLG CORP 600 First Natl Bank Bldg Abilene TX 79601 915-672-2841
THOMAS DRLG CO P O Box 400 Duncan OK 73533 405-252-5580
THOMPSON DRLG CO 4 Corporate Dr Ste 102 Newport Beach CA 92660 714-644-9292
THUNDERBOLT DRLG INC P O Drawer 129 Winnsboro TX 75494 214-342-5221
TIERRA DRLG CORP P O Box 3339 Number One Petroleum Place Ste 300 Abilene TX 79604 915-677-7291
TOLTEK DRLG CO 340 Denver Club Bldg Denver CO 80202 303-255-5255
TOP DRLG CO 2601 NW Expressway Ste 805W Oklahoma City OK 73112 405-521-9737
TORREON DRLG CO 805 The 600 Bldg Corpus Christi TX 78473 512-882-1953
TR DRLG CO P O Box 4882 Monroe LA 71203 318-388-4191
TRANSCONTINENTAL DRLG CO 555 17th St Ste 2700 Denver CO 80202 303-571-4800
TRANSCONTINENTAL DRLG CO 2nd Fl Petroleum Bldg San Angelo TX 76903 915-653-3324
TRANSCONTINENTAL DRLG CO Jet Div 920 American Tower Shreveport LA 71101
TRANSWORLD DRLG CO P O Box 25861 Oklahoma City OK 73105 405-270-1313
TREND DRLG CO P O Box 3310 Enid OK 73701 405-233-7838
TRG DRLG CORP P O Box 20020 Oklahoma City OK 73156 405-755-5002
TRI-SERVICE DRLG CO P O Drawer 70 Midland TX 79701 915-684-6641
TRI-J DRLG CO P O Box 5338 Abilene TX 79605 915-698-8026
TRI-LAND DRLG CO P O Box 18605 Oklahoma City OK 73154
TRIAD DRLG Div UGI Development Co 1100 Bitting Bldg Wichita KS 67202 316-263-02[illegible]
TRIGG DRLG CO P O Box 18605 Oklahoma City OK 73118 405-528-4456
TRIPLE H DRLG CO 333 W Main Ardmore OK 73401 405-226-3900
TRUE DRLG CO P O Drawer 2360 Casper WY 82601 307-237-9301
TUCKER DRLG CO P O Box 1876 San Angelo TX 76901 915-655-6773
TWIN ARROW INC P O Box 948 Rangely CO 81648 303-675-8667
TWT EXPL INC P O Box 1329 Park City UT 84060 801-649-8212

U

UNDERWATER GAS DEVELOPERS LTD P O Box 428 Port Colborne Ontario L3K 1B7 Canada 416-492-5148
UNDERWOOD OIL WELL SERV INC 731 Lakeshore Dr Monroe LA 71203 318-343-2665
UNION DRLG INC P O Drawer 40 Buckhannon WV 26201 304-472-4610
UNIT DRLG & EXPL CO 1101 Petroleum Club Bldg Tulsa OK 74119 918-582-3188
UNITED DRLG CO OF TYLER Rte 1 Box 294 Hwy 155 N Tyler TX 75708 214-877-3411
UNIVERSAL DRLG CO 14 Sky Ranch Rd Aurora CO 80011 303-341-4912
URC DRLG CORP 2601 Northwest Expy Ste 700 Oklahoma City OK 73112 405-840-2761

V

VECO DRLG INC P O Box 1705 2457 Industrial Blvd Grand Junction CO 81501 303-242-6912
VECO-NANA DRLG CO 5430 Fairbanks St Anchorage AK 99502 907-276-2010
VENTURE DRLG CO P O Box 1353 Cushing OK 74023 918-225-3260
VERNA CORP P O Box 6485 Midland TX 79701 915-563-4856
VI-ROI DRLG CO P O Box 1624 Duncan OK 73533 405-255-4660
VIERSEN & COCHRAN DRLG CO P O Box 19227 Oklahoma City OK 73144 405-681-6611

W

WEK DRLG CO P O Box 1498 Roswell NM 88201 505-623-5070
WES CORP 5710 W Yellowstone Casper WY 82601 307-234-0669
WAKEFIELD EARL F INC 300 W Douglas Ste 500 Wichita KS 67202 316-264-2366
WARREN INTERSTATE DRLG CO 906 Utica Tower Tulsa OK 74104
WARRIOR DRLG & ENGR CO 4200 Crabbe Rd Hwy 69 N Northport AL 35476 205-339-9700
WARRIOR DRLG CO 5015 N Pennsylvania Oklahoma City OK 73112 405-840-1783
WARRIOR DRLG INC 905 Century Plaza Wichita KS 67202 316-262-3791
WARTON DRLG CO P O Box 3747 Odessa TX 79760 915-362-0251
WEAL DRLG CO P O Box 140 Carmi IL 62821 618-382-7713
WELSH DRLG & SERV INC P O Box 45858 Houston TX 77045 713-433-4551
WES-MOR DRLG INC P O Box 1169 Graham TX 76046 817-549-3383
WES-TEX DRLG CO P O Box 2895 Abilene TX 79604 915-677-9121
WESTBURNE DRLG CANADA LTD 200 535 Seventh Ave SW Calgary Alberta T2B 0Y4 Canada 403-233-6600
WESTBURNE DRLG INC P O Box 13079 Denver CO 80202 303-623-8800
WESTERN WELL DRLG INC 11299 Brighton Rd Henderson CO 80640 303-288-2247
WHELESS DRLG CO 920 Commercial Natl Bank Bldg Shreveport LA 71101 318-222-3137
WHITE & ELLIS DRLG INC P O Box 448 El Dorado KS 67042 316-263-1102

Petroleum Engineer INTERNATIONAL

Drilling Contractors With Rotary Land Rigs In U.S.

W (Contd)

WHITEHEAD E E DRLG CONTR P O Box 1255 Drumright OK 74030 918-352-2230
WILCOX DRILLERS INC P O Box F F Natchez MS 39120 601-446-5021
WILLBROS DRLG INC 5502 W Industrial Midland TX 79703 915-697-3166
WILLIS DRLG CO P O Box 479 Edinburg TX 78539 512-383-3888
WILSON BROS DRLG CO P O Drawer 53628 Lafayette LA 70505 318-233-5950
WINTER DRLG & EXPL CO Rte 1 Box 11-A Nowata OK 74048 918-273-1874
WOOLF & MAGEE INC P O Box 6566 Tyler TX 75711 214-561-4051
WYOMING WELL SERV INC P O Box 350 Cody WY 82414 307-587-4249

X

XPLOR DRLG CO P O Box 18611 Wichita KS 67207 316-685-5372

Y

YOUNG DRLG CO P O Box 717 Bloomfield Hwy Farmington NM 87401 505-327-5218

Z

ZENITH DRLG CORP Fourth Financial Center Ste 505 Wichita KS 67202 316-265-6697

U.S. Contract Rotary Land Drilling Rigs

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
ALABAMA						
UNDESIGNATED						
Warrior Drlg & Engr	1	dsl	568	Emsco 350-GA	700	9,000
BALDWIN						
Exeter Drlg Southern	26	dsl	2500	95 Brewster	2500	17,500
Warrior Drlg & Engr	9	dsl	1000	National 100	1350	15,000
CHOCTAW						
Noble Drlg	E-1102	dsl	1870	Emsco A-1100	1870	18,000
Tesoro Drlg	1	dsl	2300	National 130-M	2742	20,000
ESCAMBIA						
Goldrus Drlg	6	dsl-elec	3400	OILWELL E-2000	1700	20,000
FAYETTE						
Rapad Drlg	5	dsl	950	National 370	11500	11,500
Warrior Drlg & Engr	12	dsl	300	Cabot/Franks 1287	320	5,000
	4	dsl	145	Cardwell M-K	600	4,000
	8	dsl	300	Wilson Super 38	150	5,000
LAMAR						
Apollo Drlg & Expl	5	dsl	500	National 370	550	9,000
Warrior Drlg & Engr	11	dsl	750	EMSCO	600	8,500
	3	dsl	600	Gar-Den GD-500	600	9,650
	7	dsl	700	Brewster N-4	300	7,000
MOBILE						
Noble Drlg	N-131	dsl	2130	National 130	2130	18,000
	25	dsl	3300	National 1625-DE	3135	30,000
Penrod Drlg	9	dsl	2600	National 1320-M	3425	25,000
ALASKA						
UNDESIGNATED						
Nabors Alaska Drlg	1	cat	1700	EMSCO A-800	1650	15,000
	1-ES	dsl-elec	500	EMSCO Electrohoist C-II	2400	20,000
	17	dsl	2000	OILWELL 860	2475	19,000
	18-E	dsl-elec	2000	EMSCO Electrohoist	3200	25,000
	22-E	dsl-elec	3200	EMSCO II-C Electrohoist	3200	25,000
	25	dsl	2000	National 110	2475	20,000
	26-E	dsl-elec	3200	EMSCO Electrohoist	4000	25,000
	27-E	dsl-elec	3200	EMSCO Electrohoist	4000	25,000
Veco-Nana Drlg	4	dsl-elec	3200	Gar-Den 1500-E	2000	20,000
ARCTIC NORTH SLOPE						
Parker Drlg	147	dsl	1500	OIME TBA-2000	1700	20,000
NATIONAL PETROLEUM RESERVE						
Parker Drlg	95	dsl	2250	National 130	2250	25,000
NORTH SLOPE						
Brinkerhoff-Signal	36	dsl	2100	National 110	2100	18,000
	54	dsl-elec	2325	National 110-UE	2325	18,000
Parker Drlg	123-HH/12	dsl	1200	OIME SL-1500	1800	17,000
	128-HH	dsl	1100	OIME TBA-2000	1100	20,000
	135-HH/23	dsl	1500	OIME TBA-2000	1700	20,000
	141	dsl	1250	OIME TBA-2000	1800	20,000
	176	elec	2600	OIME 2000-E	3600	20,000
	191	dsl	4000	OIME 3000-E	4000	30,000
	96	dsl	2250	National 130	2250	25,000
	97	dsl	1500	National 80-B	1500	15,000
Rowan Drlg US	34	dsl-elec	2000	National 110-EH Special	3000	17,000
	35	dsl-elec	2000	National 110-EH Special	3000	17,000
	26	dsl	2000	National 110	1590	18,000
	29	dsl	1850	National 110	2400	20,000
Veco-Nana Drlg	1	dsl-elec	2000	OILWELL 840-E	2000	20,000
	2	dsl	3200	OILWELL 2000	1600	25,000
	3	dsl	3200	OILWELL 2000	1600	25,000
ALASKA (Cont'd)						
POINT THOMPSON						
Loffland Bros	162	dsl	2160	National 110	2400	20,000
ARIZONA						
COSHISE						
Parker Drlg	166	elec	3000	OIME 3000-E	3000	30,000
PINAL						
Morrow Drlg	1	dsl	1360	Cabot/Franks 1287	350	4,000
ARKANSAS						
UNDESIGNATED						
Shula Drlg	3	dsl	300	Wilson Mogul	325	5,000
COLUMBIA						
Kern Drlg	2	gas	500	EMSCO GB-350	500	8,500
	5	dsl	1050	OILWELL 76	1050	11,500
Lama Drlg	10	dsl	600	10 Wilson Mogul	600	8,000
N & C Drlg	2	dsl	2000	OIME SL-1000	1200	15,000
Noble Drlg	N-81	dsl	1420	National 80	1420	14,000
Sawyer Drlg & Serv	4	dsl	1000	Brewster N-7	1000	12,500
Shuler Drlg	4	dsl	600	EMSCO GB-350	600	8,000
SH & J Drlg	1	dsl	807	Cardwell O	800	10,000
	2	btne	885	Brewster N-7	750	9,500
	3	dsl	807			7,300
CRAWFORD						
Unit Drlg & Expl	5	dsl	950	Unit U-15	600	10,000
FRANKLIN						
Miller Drlg	101	gas	450	National 50	450	7,000
	103	gas	600	National 50	600	10,000
	104	gas	450	National 50	450	8,000
	105	gas	300	Brewster N-3	145	3,800
	112	dsl	350	Spencer 6000	300	6,000
JOHNSON						
Miller Drlg	111	dsl	350	Spencer 5000	300	6,000/3½"
	118	dsl	300	M-CSCO U-34	350	7,000
LAFAYETTE						
Kern Drlg	1	dsl	350	EMSCO GB-250-T	350	6,500
	7	dsl	1020	OILWELL 76	1020	12,500
Layton Oil	8	dsl	450	Cooper	300	6,500/3½"
Owen Drlg	7	dsl	635	Ideco H-35	504	5,000
Shuler Drlg	6	dsl	600	Wilson Giant	600	8,000
LOGAN						
Astro Drlg	18	dsl	556	Ideco H-1000	940	12,000
	23	dsl	1050	Cabot/Franks 2550	1040	15,000
Miller Drlg	117	dsl	1000	OIME SL7	1500	20,000
Tierra Drlg	6	dsl	850	Brewster	800	8,000
MILLER						
Gibson Drlg	6	dsl	506	Wilson Mogul 42	318	5,000
Murco Drlg	34	dsl	2200	OILWELL N-760	1350	15,000
Shuler Drlg	5	dsl	325	Bethlehem	350	5,000
Transcontinental Drlg	22	dsl	750	Brewster N-7	750	11,000
MISSISSIPPI						
Parker Drlg	162	dsl	2200	OIME SL-1500-P	2200	20,000
OUACHITA						
Shuler Drlg	1	dsl	300	Spencer	325	5,000
POPE						
Miller Drlg	15	dsl	600	Spencer	600	8,500
OUACHITA						
Hatcher & Son H F	3	gas	250	Wilson Mogul 42	225	5,000
SEBASTIAN						
Miller Drlg	107	gas	450	Unit 15	450	8,500

ARKANSAS (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Avail-able to Drwwks	Rated Depth with 4½" Pipe
SEBASTIAN (Contd)						
Miller Drlg	108	gas	450	M-CSCO U-15	450	8,000
Unit Drlg & Expl	16	dsl	1000	M-CSCO U-15	950	12,000
UNION						
New & Hughes Drlg	3	dsl	450	Spencer 6000	550	7,000
Shuler Drlg	8	dsl	450	Spencer 7000	400	7,000

CALIFORNIA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Avail-able to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Atlantic Oil	10	dsl	680	National T-32	370	6,000
	11	gas		National 80	1350	14,000
	12	dsl	850	National 50-A	680	9,000
	14	dsl		Ideco H		5,000
	15	dsl	680	National T-32	340	6,000
	16	dsl	1000	National 130	2475	20,000
	2	gas	1260	National 55	1260	11,000
	3	dsl	680	Ideco H-40	370	5,500
	4	gas	900	National 55	900	10,000
	5	dsl	680	National 50-A	680	9,000
	6	gas		National 80	1680	14,000
	7	gas	650	National T-32	450	6,000
	8	gas	650	National T-32	370	6,000
Bawden Peter Drlg	12	dsl	1700	EMSCO A-800-WE	1000	15,000
Gary Drlg	15	dsl	800	Gary	640	9,000
MHC Drlg	1	dsl	950	National T-32	320	9,000/3½"
Montgomery Drlg	41	scr	1350	National 1320-UE	2000	23,000
Repco	2-H	dsl	636	Hopper	440	6,100
COLUS						
MHC Drlg	2	dsl	1520	OILWELL 660	880	12,500/4"
COLUSA						
Bawden Peter Drlg	22	dsl-elec	1400	EMSCO M-58	800	10,000
MHC Drlg	5	dsl	960	Ideco 525	480	9,000/4"
Owens Jack Serv	5	dsl	300	Ideco H-25	300	4,000
FRESNO						
Loffland Bros	16	dsl	1425	M-CSCO U-914-C	1600	18,000
Montgomery Drlg	1	dsl-elec	3200	National 1320-UE	3645	25,000/5"
Scandinavian Montgomery Drlg	11	dsl	1000	EMSCO GB-800	1000	12,000/5"
GLENN						
Owens Jack Serv	2	dsl	200	Ideco H-38	350	4,000
	6	dsl	300	Ideco H-35	300	4,000
KERN						
Barnes Core Drlg	711-D	dsl	750	Howard-Turner 5500 -	450	5,500
Bawden Drlg	50	dsl	1500	National 55		12,000
Bawden Peter Drlg	10	dsl-elec	1500	OILWELL 940-E	1500	14,000
	11	dsl-elec	1706	EMSCO A-800-WE	1000	12,000
Big-O Drlg	2	dsl	1200	National 75-CA	1200	10,500
	3	dsl	1100	National 100	1650	13,500
Brea Drlg	1	dsl	165	Howard-Turner	165	2,500
Cactus Drlg Ltd	29	dsl	500	EMSCO GA-500	9000	
California Prod Serv	M-17	dsl	300	Cardwell K-200-C	308	4,000
Cleveland Drlg	1	dsl	1200	OILWELL 96	1200	18,000
	2	dsl	600	Brewster RR-400	450	5,000
Dahlquist Drlg	1	dsl	300	Tomson 3000	250	2,500
	5	dsl	300	Failing 2000	160	1,600
Edwards Well Serv	D-30	dsl		Ideco	300	
Gary Drlg	D-12	dsl	382	EMSCO GB-160-T	300	4,500
	D-13	dsl	450	EMSCO GB-16-T	300	4,000
	D-3	dsl	628	EMSCO G-350	600	8,000
	D-30	dsl	300	Ideco 35		
	D-4	dsl	475	EMSCO GB-160-T	450	4,500
	D-5	dsl	382	Hooper GT-34	300	2,500
	D-6	dsl	600	EMSCO GB-160-T	400	4,500
	D-7	dsl	381	Gary	200	2,000
	D-8	dsl	450	EMSCO GB-160-T	400	4,500
	D-9	dsl	628	Cabot/Franks	400	5,500
	1	dsl	450	Hooper	400	5,000
	14	dsl	800	Gary	640	9,000
Golden State Drlg	D-10	dsl	750	Custom Howard-Turner	450	5,500
	D-6	dsl	750	Custom Howard-Turner	450	5,500
	D-8	dsl	750	Challenger 78	450	5,500
Hylton Drlg	1	dsl	380	National T-12	300	4,000
	4	dsl	380	Howard-Turner MR-10	150	3,000
	5	dsl	380	Ideco H-30	300	5,000
	7	dsl	300	National T-12	380	4,000
	8	dsl	380	Ideco H-30	300	5,000
Kenai Drlg West Coast	34	dsl	950	EMSCO GB-350	800	9,000
	8	dsl	875	Wagner-Morehouse T-5054	400	7,000
Loffland Bros	185	gas	1600	M-CSCO U-914-C	1900	17,000
Marlin West	Marlin 11	dsl-elec	2000	National 110	1600	14,000
	Marlin 12	dsl-elec	2000	National 110	1600	14,000
Montgomery Drlg	14	dsl	1200	OILWELL 66	700	10,500/5"
	17	dsl-elec	2000	OILWELL 940-E	2000	20,000/5"
NECK Drlg	1	gas	350	Wilson Super	350	4,000
	2	gas	450	Wagner-Morehouse	450	6,000
Pyramid Oil	15	dsl	400	Ideco H-30	300	3,000

CALIFORNIA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Avail-able to Drwwks	Rated Depth with 4½" Pipe
KERN (Contd)						
Scandinavian Montgomery Drlg	3	dsl	1200	National 75	700	1,200/5"
	8	dsl	1200	National 75	700	1,200/5"
	9	dsl-elec	2200	National 1320-UE	3000	22,000/5"
KING						
MHC Drlg	4	dsl	960	OILWELL 66	640	11,000/4"
KINGS						
Montgomery Drlg	4	dsl	2000	OILWELL 96	1500	18,000/5"
LAKE						
Montgomery Drlg	6	dsl	1400	EMSCO GB-800	1200	13,000/5"
LOS ANGELES						
Bawden Drlg	24	dsl-elec	1550	National 80-E	1000	14,000
	38	dsl	2100	OILWELL 940-E	1500	8,500
Big Chief Drlg	18	dsl	500	Hooper GXXTA	450	6,000
Big-O Drlg	1	dsl	1200	OILWELL 66	800	9,500
	4	dsl	1100	National 75-CA	900	12,500
California Prod Serv	D-3	dsl	300	Ideco H-37-D	461	4,500
	D-4	dsl	500	Hooper MTA	461	4,500
	D-6	dsl	500	Hooper MTA	461	4,500
	D-7	dsl	1000	Hooper MTA	654	6,500
Finley Oilwell Serv	11	dsl	736	Ideco H-30	318	3,500
	6	dsl	736	Ideco H-40	475	5,500
Gary Drlg	D-2	dsl	800	National T-45	600	9,000
Kellogg K L & Sons	40	elec	1000	National 610	700	11,000
	41	elec	1000	National Con 75-CA	700	11,000
Kenai Drlg West Coast	30	dsl	800	Ideco H-40	400	6,500
MHC Drlg	6	dsl-elec	950	National 110	950	18,000
Pool Well Serv	38	dsl	520	Cabot/Franks 550	550	5,500
MONTEREY						
Gary Drlg	D-10	dsl	628	Hooper	400	5,500
Melton Drlg	3	dsl	350	Wagner-Morehouse	350	4,000
ORANGE						
Finley Oilwell Serv	17	dsl	736	Cabot/Franks 1287	636	7,000
Kenai Drlg West Coast	24	dsl-elec	1500	Wilson Titan	1000	13,000
Loffland Bros	125	dsl-elec	2000	M-CSCO U-914	2000	18,000
	92	dsl-elec	2160	M-CSCO U-914-CE	2200	18,000
Montgomery Drlg	15	dsl-elec	2000	National 75-CB	1000	14,000
Petrowell Corp	1	dsl	736	Ideco H-30	318	3,500
Thompson Drlg	2	dsl	900	EMSCO GA-250-T	450	6,500
SAN LUIS OBISPO						
Big-O Drlg	5	dsl-elec	3200	Ideco Super 711	1600	18,000
SANTA BARBARA						
Challenger Drlg	30-E	dsl-elec	3000	National 1320-UE	2400	25,000
Kenai Drlg West Coast	29	dsl	900	Wilson Giant	1200	10,000
	4	dsl	800	Ideco H-40-D	400	6,500
	5	dsl	800	National T-32	400	7,000
	7	dsl	800	Unit U-10	400	7,000
	9	dsl	800	Ideco H-400	400	6,500
Loffland Bros	232	dsl	1000	M-CSCO U-15	1000	12,000
SONOMA						
Loffland Bros	105	dsl-elec	2160	M-CSCO U-914-EC	2200	18,000
	25	dsl-elec	2000	M-CSCO U-924-CE	2000	18,000
	27	dsl-elec	2160	M-CSCO U-20	2400	18,000
	50	dsl-elec	1420	M-CSCO U-712-A	1600	17,000
STOCKTON						
Owens Jack Serv	4	dsl	300	Ideco H-35	150	4,000
SUTTER						
MHC Drlg	3	dsl	960	National CA-50	640	10,500/4"
VENTURA						
Bawden Peter Drlg	27	dsl-elec	1500	EMSCO 550-WE	750	12,000
California Prod Serv	D-1	dsl	500	Hooper GXXTA	461	4,000
Gary Drlg	D-11	dsl	600	EMSCO C-50	600	8,000
Loffland Bros	212	gas	1420	M-CSCO U-914-A	1600	18,000
	217	gas	1600	M-CSCO U-914-C	1900	18,000
	64	dsl-elec	1700	M-CSCO U-36-EA	1200	11,000
Republic Drlg	6	dsl	1800	Brewster N-95	1800	18,000

COLORADO

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Avail-able to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Comanche Drlg Ltd	10	dsl	650	Brewster N-45	650	8,000
	7	dsl	325	EMSCO GB-350	650	8,600
ADAMS						
Allison Drlg	25	dsl	435	Gar-Den 500	435	10,000
Exeter Drlg Northern	23	dsl	500	M-CSCO U-15	720	8,700
Toltek Drlg	1	dsl	440	Brewster N-4	440	7,000
	2	dsl	680	National 50-A	875	9,000
Westburne Drlg	66	dsl	1200	Gar-Den 1100	1500	18,000
ARAPAHOE						
Allison Bros Drlg	1	dsl	320	Ideco BIR-800	920	10,000
BACA						
Sage Drlg	1	dsl	400	National T-32	400	6,500
BOULDER						
Exeter Drlg Northern	40	dsl	500	M-CSCO U-15	750	9,500
CHEYENNE						
Allison Drlg	15	dsl	720	Brewster N-7	720	10,000

COLORADO (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
CHEYENNE (Contd)						
Murfin Drlg	14	dsl	400	T-45	700	8,000
DOLORES						
Arapahoe Drlg	11	gas-btne	300	National T-32	320	9,000
Loffland Bros	211	dsl	1260	M-CSCO U-15	1000	10,000
ELBERT						
Exeter Drlg Northern	1	dsl	500	National 50-A	750	9,500
GARFIELD						
Loffland Bros	12	dsl	840	Ideco Hydrair H-44-CSC	868	8,000
Nicor Drlg	38	dsl	750	Wilson 75	640	9,000/4"
	39	dsl	700	National D-300	300	5,000/3½"
GRAND JUNCTION						
Shelby Drlg	3	dsl	400	Cabot/Franks	425	7,500
LA PLATA						
Arapahoe Drlg	10	gas-btne	700	National 50-A	500	12,000
Cactus Drlg Corp	5	dsl	1000	National 75	1180	12,000
Coleman Drlg	2	dsl	1100	Ideco H-40-D	636	8,000
	3	dsl	900	Ideco H-44-CSC	636	8,000
Four Corners Drlg	3	dsl	750	Cardwell KB-500	700	8,000
Young Drlg	4	dsl	400	Cardwell K-500	600	8,500
LARIMER						
Exeter Drlg Northern	6	dsl	330	National T-20	300	6,000
LOGAN						
Allison Drlg	3	dsl	360	Cardwell KB-500	380	7,500
Toltek Drlg	3	dsl	680	Brewster N-4	440	8,000
MESA						
Calvert Western Expl	9	dsl	900	National 300-B	350	5,000
Nicor Drlg	37	dsl	850	Failing Stratmaster	340	7,000/3 "
Veco Drlg	1	dsl	400	Failing 90	400	5,000
	2	dsl	425	Mayhew 5000	500	7,000
	3	dsl	850	M-CSCO U-36-A	700	9,000
	5	dsl	1400	OIME 750	750	11,000
	6	dsl	1400	OIME 750	750	11,000
	9	dsl	1200	Ideco 725	750	11,000
Westburne Drlg	52	dsl	1650	National Ideal 110	1830	18,000/5"
MOFFAT						
Loffland Bros	186	dsl	2160	M-CSCO U-914-C	2400	20,000
MONTEZUMA						
Coleman Drlg	4	dsl	1300	Brewster MOD-N-46	930	10,000
Loffland Bros	29	dsl-elec	1400	M-CSCO U-36-A	1600	11,000
MORGAN						
Allison Bros Drlg	2	dsl	360	Cardwell KB-500	380	7,500
Gibson J W Well Serv	75	dsl	450	Cardwell K-8500	450	8,000
	84	dsl	550	Cabot/Franks 2042	700	10,000
	93	dsl	450	Cabot/Franks M-1287	450	6,000
PROWERS						
Murfin Drlg	12	dsl	375	Bethlehem C-50	600	7,500
RIO BLANCO						
Manning R L	10	dsl		OILWELL 660	720	10,000
	11	dsl	720	National 370	720	8,500
	19	gas-btne	925	Bethlehem M-58	910	10,000
	23	dsl	800	Brewster N-45	654	7,500
	9	dsl	650	EMSCO GA-500	650	9,000
Nicor Drlg	36	dsl	1150	Gar-Den 500	650	11,000
	57	dsl	925	National T-45	550	10,600
Tierra Drlg	16	dsl	650	Brewster 4610	750	10,000
Twin Arrow	306			Cardwell		4,500
	309			Brewster		6,000
Veco Drlg	7	dsl	1550	OIME 1000	1000	16,000
SAN MIGUEL						
Brinkerhoff-Signal	76	dsl	800	Gar-Den M-500	800	10,000
WASHINGTON						
Exeter Drlg Northern	13	dsl	350	Brewster N-4	300	6,000
Toltek Drlg	4	dsl	440	Unit U-34	440	7,000
Western Well Drlg	2	dsl	350	Failing H-2000	350	3,500
WELD						
Exeter Drlg Northern	2	dsl	375	EMSCO GA-250	460	7,500
	12	dsl	500	National T-45	750	9,500
	14	dsl	375	Bethlehem C-50	460	7,500
	22	dsl	500	M-CSCO U-15	750	9,500
	25	dsl	375	M-CSCO U-15	480	8,500
	5	dsl	300	M-CSCO U-34-D	300	6,000
YUMA						
Excell Drlg	1	dsl	420	671 GMC	210	4,200
	2	dsl	375	671 GMC	210	3,300

FLORIDA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Penrod Drlg	108	dsl	1000	National 80-B	1760	15,000
COLLIER						
Penrod Drlg	14	dsl	3075	Brewster N-12-A	1840	20,000
ESCAMBIA						
Delta Drlg	56	dsl	2600	Wilson Super 250	2592	25,000

FLORIDA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
SANTA ROSA						
Penrod Drlg	15	dsl	3000	Gar-Den 2100	2200	30,000
	19	dsl	2600	National 1320-M	3425	25,000
	2	dsl	2600	EMSCO C-2	3425	25,000
TAYLOR						
Delta Drlg	66	dsl-elec	2300	EMSCO Electro-hoist II	3456	18,000

GEORGIA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
GLYNN						
Crescent Drlg	1	dsl	400	Bethlehem S-45-E	400	7,000
JEFFERSON DAVIS						
Penrod Drlg	16	dsl	3075	Brewster N-12-A	1840	20,000

IDAHO

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
CARIBOU						
Loffland Bros	57	dsl-elec	1800	National 80-B	2000	16,000

ILLINOIS

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Gallagher Drlg	5	dsl	300	National T-12	310	3,500
Maz-Kar Oil	1	dsl				4,000
PEP Drlg	6	dsl	470	Ideco H-35-S	470	6,500
CLAY						
Barr Drlg	1	dsl	378	National T-12	286	5,000/3½"
Precision Expl	4	dsl	400	National T-20	400	5,500
COOK						
Drillers	S-1	dsl-hydra	400	Shaft SCD-830	400	2,000
CRAWFORD						
Nicor Drlg	20	gas	175	Failing 2500	260	2,500
EDWARDS						
Mitchell Geo N Drlg	6	dsl	400	Wilson 38	400	4,000
Precision Expl	5	dsl	400	National T-12	385	4,500
Ram Drlg	1	dsl	1800	Ideco HD-35	1800	6,500
	2	dsl	1800	National T-12	1800	5,000
FAYETTE						
Smith Drlg	7	dsl	450	Gar-Den 2500	350	3,500/3½"
JASPER						
Precision Expl	3	dsl	400	National T-16	400	6,500/3½"
RICHLAND						
Mitchell Geo N Drlg	1	dsl	400	S-45-A	400	6,000
Precision Expl	1	dsl	400	National T-20	400	6,500/3½"
SALINE						
Big Seven Drlg	11	dsl	300	EMSCO GB-160	300	4,000
Mitchell Geo N Drlg	4	dsl	400	Brewster N-4	400	6,000
WABASH						
Beard Drlg	1	dsl	400	National T-12	350	4,500
WAYNE						
J-V Drlg	6	dsl	145	Speedstar SS-15-S	145	1,600/2⅞"
Mitchell Geo N Drlg	5	dsl	400	Brewster N-4	400	6,000
Precision Expl	2	dsl	400	National T-20	400	6,500/3½"
Royco Drlg	2	dsl	300	Gar-Den 3000	200	5,000/3½"
Smith Drlg	11	dsl	450	National T-20	480	6,000
	9	dsl	320	National T-12	320	4,000
WHITE						
Big Seven Drlg	7	dsl	300	EMSCO GB-250	380	6,000
Harris Drlg	1		3660	National T-12	320	4,000
	4	dsl	500	National 50	360	6,000
Kendall Drlg	2	dsl	400	Brewster N-4	360	5,500
Mitchell Geo N Drlg	7	dsl	400	Ideco 35	400	6,500
	8	dsl	400	Mack 300	250	3,500
Ram Drlg	3	dsl	360	National T-12	360	4,500
Snyder Drlg Well Serv	1	dsl	350	Brewster N-4	350	6,000
	2	dsl	365	Bethlehem 545	325	6,500

INDIANA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Gallagher Drlg	6	dsl	520	Cardwell Model O	970	12,000
KNOX						
Gwaltney Drlg	1	dsl	200	National T-12	165	3,000
Smith Drlg	2	dsl	350	National T-8	238	2,500/3½"
POSEY						
Gallagher Drlg	4	dsl	500	Bethlehem S-45-E	476	6,000
Kendall Drlg	3	dsl	300	Brewster N-4	300	5,500
Royco Drlg	1	dsl	300	Cardwell	335	5,500
WARRICK						
J-V Drlg	9	gas	85	Cabot/Franks F	85	600/2⅜"

KANSAS

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Allen Drlg	1	dsl	476	National T-32	476	6,000
Big Springs Drlg	1	dsl	360	Bethlehem S-45-13	360	5,000
	2	dsl	360	National T-32	360	5,500
Rains & Williamson Oil	7	dsl	360	Brewster N-4	460	5,500

KANSAS (Cont'd)

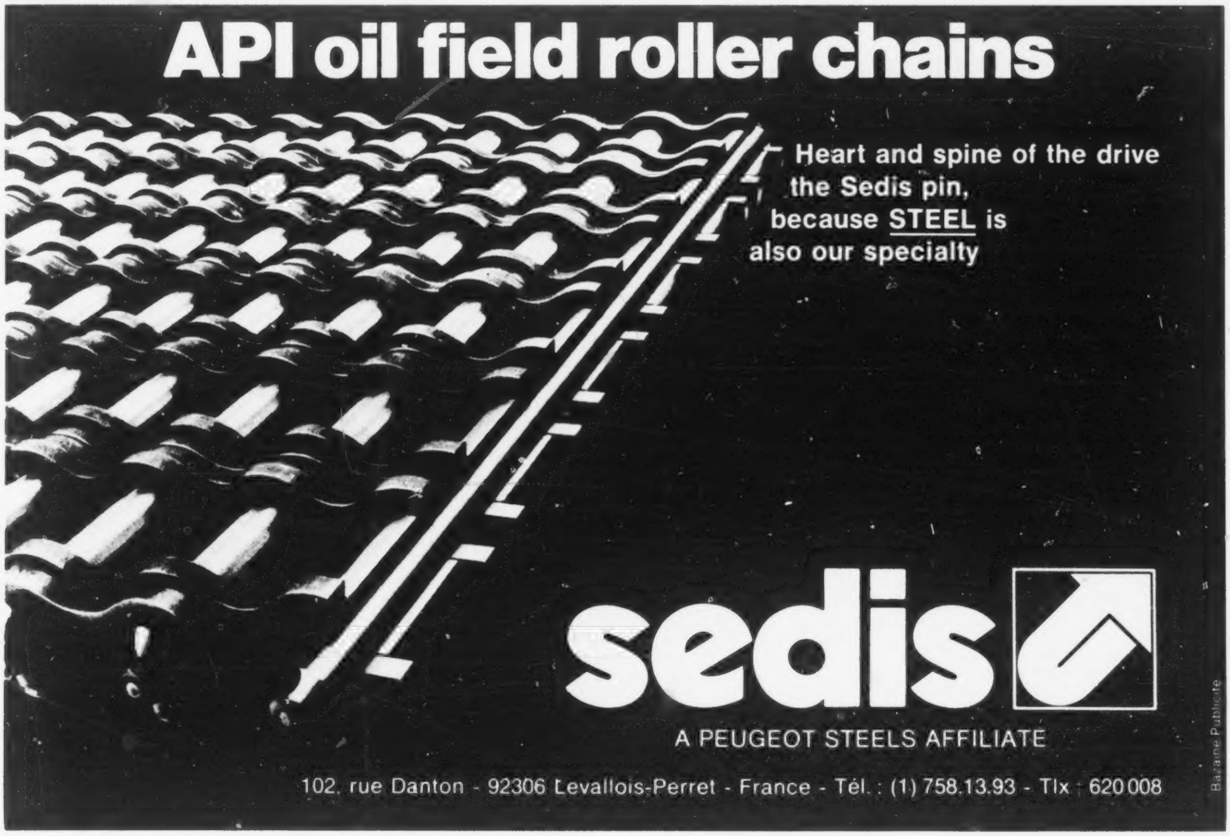
Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED (Contd)						
Rains & Williamson Oil	8	dsl	360	Brewster N-R		6,700
ALLEN						
L & R Drlg	6	dsl	318	Cabot/Franks	318	1,500
BARBER						
Abercrombie Drlg	11	dsl	600	EMSCO 350	700	7,500
Damac Drlg	2	dsl	310	Wilson Giant	310	6,000
Dunne-Gardner Petr	3	dsl	400	Challenger	400	6,000
Eagle Drlg Inc	1	dsl	8000	National 370	650	7,000
Graves Drlg	1	dsl	300	Brewster N-4	400	6,000
H-30 Drlg	5	dsl	510	Ideco H-35	510	6,500
Lauck D R Oil	1	dsl	350	M-CSCO U-15	400	6,000
Pickrell Drlg	1	dsl	450	M-CSCO U-15	450	6,500
Slawson Drlg	5	dsl	360	Ideco H-525	480	7,500
Sweetman Drlg	1	dsl	750	National 370	750	9,000
Xplor Drlg	1	dsl	750	National T-32	750	8,500
BARTON						
Abercrombie Drlg	4	dsl	365	Ideco H-35	365	8,500
Bergman Drlg	1	dsl	300	EMSCO	300	5,500
Damac Drlg	7	dsl	385	Brewster N-4	385	5,000
Duke Drlg	1	dsl	375	Unit	375	5,000
	2	dsl	250	National	250	5,000
L D Drlg	1	dsl	410	Bethlehem S-45-A	300	4,600
Peters Drlg	4	dsl	250	Cardwell R-L	250	6,000
	8	dsl	250	Cardwell DB-200	250	6,000
White & Ellis Drlg	8	dsl	535	EMSCO 350	670	7,500
BUTLER						
Range Drlg	1	dsl	360	Cabot/Franks SAL-4500	440	3,500
White & Ellis Drlg	3	dsl		National T-12		
	4	dsl		EMSCO GA-250		
	5	dsl		EMSCO GA-150		
CLARK						
Gabbert-Jones	3	dsl	550	EMSCO 350	550	7,000
Rains & Williamson Oil	5	dsl	360	Ideco H-40	400	7,000
COMANCHE						
H-30 Drlg	77	dsl	375	Ideco H-40	525	8,000
Simmons Drlg	40	dsl	375	Ideco H-40	350	6,000
COWLEY						
Edco Drlg	5	dsl	475	Cardwell KB-200	375	4,500
	6	dsl	375	Cardwell KB-150	318	3,500
Range Drlg	2	dsl	350	Wilson Giant	350	5,500
White & Ellis Drlg	7	dsl	335	Unit U-34	425	4,000
DECATUR						
Abercrombie Drlg	10	dsl	365	Cabot/Franks Trl Mtd	220	4,500
	9	dsl	365	Bethlehem Breeze	365	5,500
Murfin Drlg	7	dsl	525	National T-32	400	5,000
EDWARDS						
Damac Drlg	5	dsl	310	Ideco DIR H-35	310	5,000
Lauck D R Oil	2	dsl	350	Brewster N-45	400	6,000
Sterling Drlg (KS)	1	dsl	350	M-CSCO U-34	285	4,600
	4	dsl	450	M-CSCO U-15	285	5,000
White & Ellis Drlg	9	dsl	535	Brewster N-46	950	10,500
ELLIS						
Abercrombie Drlg	1	dsl	365	M-CSCO U-34	365	5,000
	8	dsl	365	Bethlehem S-50	365	5,500
Buffalo Drlg	1	dsl	500	Brewster N-4	400	6,000
C & R Drlg	1	dsl	425	National 370	425	7,500
Dreiling Oil	1	dsl	320	Bethlehem C-50	440	6,000
	3	dsl	320	Brewster N-4	320	4,500
Murfin Drlg	15	dsl	400	National T-20	400	5,000
Nixon R P	3	dsl	3406	Wilson Model 42	825	6,000
Red Tiger Drlg	5	dsl	700	Unit U-15	700	6,000
White & Ellis Drlg	10	dsl	375	Bethlehem S-45	350	5,000
ELLSWORTH						
Red Tiger Drlg	3	dsl	700	Ideco H-35	700	5,500
FINNEY						
DNB Drlg	1	dsl	450	OILWELL 52-T	450	6,500
Service Drlg (OK)	1	dsl	300	Unit R-U34	400	5,500
	10	dsl	300	Unit R-U34	400	5,500
Wakefield Earl F	1	dsl	440	M-CSCO U-34	440	5,000
	7	dsl	640	EMSCO Gb-160-T	640	5,000
GOVE						
Simmons Drlg	31	dsl	350	Spencer 6000	350	6,500
Slawson Drlg	3	dsl	480	Ideco H-35	480	7,000
GRAHAM						
Farmer John O	4	dsl	400	Ideco H-30	400	6,000
Murfin Drlg	21	dsl	375	Ideco H-35	475	6,500
Red Tiger Drlg	7	dsl	700	EMSCO GA-250-T	700	5,000
	8	dsl	700	EMSCO GA-250-T	700	5,000
	9	dsl	700	Unit U-10	700	6,000
GRAY						
Slawson Drlg	6	dsl	360	Ideco H-525	480	7,500
	7	dsl	480	Ideco H-35	480	7,500
GREENWOOD						
Edco Drlg	1	dsl	375	Sullivan A-1300	318	3,000
	2	dsl	318	Sullivan 318	375	3,000

KANSAS (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
GREENWOOD (Contd)						
Edco Drlg	3	dsl	125	Cardwell J-101	235	750
	4	dsl	125	Davey	235	750
HAMILTON						
Service Drlg (OK)	2	dsl	300	Unit R-U34	450	5,500
HARPER						
Slawson Drlg	4	dsl	6500	Ideco H-30	360	7,500
HASKELL						
Damac Drlg	6	dsl	550	Cabot/Franks BIR-550	450	6,000
HODGEMAN						
Dunne-Gardner Petr	1	dsl	350	EMSCO 250	350	5,000
H-30 Drlg	11	dsl	375	Ideco H-30	375	5,500
Rains & Williamson Oil	2	dsl	360	OILWELL 52-T	400	6,700
Strata Drlg	1	dsl	500	M-CSCO U-15	520	7,500
KEARNY						
Service Drlg (TX)	2	dsl	454	M-CSCO U-34	454	6,000
KINGMAN						
Brandt Drlg	2	dsl	350	National 370	600	5,500
H-30 Drlg	3	dsl	375	Ideco H-40	575	8,000
Sterling Drlg (KS)	5	dsl	350	EMSCO GB-350	600	7,000
KIOWA						
Gabbert-Jones	6	dsl	275	National T-32	275	5,500
	9	dsl	275	National T-32	310	5,500
Red Tiger Drlg	6	dsl	700	Ideco H-35	700	5,500
LANE						
Abercrombie Drlg	12	dsl	365	Bethlehem Freeze	300	5,500
C-G Drlg	1	dsl	300	National T-32	300	5,000
LEAVENWORTH						
Berentz Drlg	1	dsl	350	National T-12	325	3,500
MC PHERSON						
Blackstone Drlg	2	dsl	300	National T-20	300	4,000
	3	dsl	300	450-T BDW	300	5,000
MARION						
Dakota Drillers	1	dsl	1500	Gar-Den	250	1,500/2½"
Kan-Go	K3-B	dsl	365	Cabot/Franks	300	4,000
MARTIN						
Lohmann-Johnson Drlg	3	dsl	300	National 50	450	5,500
MEADE						
Sage Drlg	2	dsl	400	OILWELL T-52	400	6,700
	7	dsl	400	BDW 450	400	8,000
Search Drlg	1	dsl	640	National T-32	640	6,000
Zenith Drlg	7	dsl	550	Brewster N-4	500	7,000
MEADS						
Service Drlg (OK)	5	dsl	1000	Unit R-U15	800	10,500
MONTGOMERY						
Centennial Expl & Drlg	CP-650	dsl	250			1,200
Layton Oil	1	dsl	150	Wilson	100	1,500
	6	dsl	250	Wilson Double Drum	250	3,000/2⅞"
Winter Drlg & Expl	2	dsl	900	Jaswell J-2400	900	2,400
MORTON						
Service Drlg (TX)	10	dsl	454	M-CSCO	450	5,500
NEOSHO						
Carter Land & Cattle	1	dsl	250	Gar-Den 1000	350	1,000
	2	dsl	250	Gar-Den 1000	350	1,000
	3	dsl	250	Gar-Den 1000	350	1,000
NESS						
DNB Drlg	2	dsl	500	National T-32	450	6,500
Pickrell Drlg	10	dsl	370	M-CSCO U-15	370	5,500
Slawson Drlg	1	dsl	360	Ideco H-35	360	5,500
PAWNEE						
Dunne-Gardner Petr	2	dsl	400	Ideco H-35	400	7,000
Red Tiger Drlg	4	dsl	700	EMSCO Gas 250	700	5,000
Sterling Drlg (KS)	8	dsl	350	Gar-Den 2000	350	2,800/3½"
PRATT						
Damac Drlg	1	dsl	350	Wilson Giant	350	5,500
Husky Drlg	1	dsl	270	M-CSCO U-15	270	6,000
Murfin Drlg	22	dsl	600	National 370	600	7,500
Red Tiger Drlg	1	dsl	450	Unit U-15	450	6,000
RAWLINS						
Rains & Williamson Oil	1	dsl	360	Bethlehem S-45-B	400	5,500
RENO						
H-30 Drlg	7	dsl	375	Ideco H-30	375	5,500
RICE						
Banner Drlg	4	dsl	400	Apache 250-40	375	5,000
Rockhold Engr	3	gas		Cardwell RL	150	
ROOKS						
Murfin Drlg	8	dsl	400	National T-20	400	5,000
Red Tiger Drlg	2	dsl	700	EMSCO GA-250	700	5,000
RUSH						
Abercrombie Drlg	6	dsl	365	Ideco H-35	365	6,000
H-30 Drlg	2	dsl	280	Ideco H-40	312	8,000

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
KANSAS (Cont'd)						
RUSSELL						
Abercrombie Drlg	7	dsl	365	M-CSCO U-34	365	5,000
Shields Drlg	2	dsl	300	Bethlehem C-50	300	5,500
SCOTT						
Abercrombie Drlg	5	dsl	750	Ideco 725	600	10,000
Rockhold Engr	7	gas		Walker-Neer	200	
SEDGWICK						
Brandt Drlg	1	dsl	350	Bethlehem S-50	335	4,500/3½"
STAFFORD						
Murfin Drlg	19	dsl	525	Wilson Super Mogul 42	525	6,500
Slawson Drlg	2	dsl	360	Ideco H-525	480	7,500
White & Ellis Drlg	2	dsl	425	EMSCO GA-250	335	4,500
SUMNER						
DNB Drlg	3	dsl	450	National T-20	350	5,000
Rains & Williamson Oil	3	dsl	360	Brewster N-R	400	6,700
Range Drlg	2	dsl	350	Unit 10A	350	5,500
TREGO						
Murfin Drlg	16	dsl	400	EMSCO S-45-E Bethlehem	400	5,000
Rains & Williamson Oil	4	dsl	360	Unit U-34	400	5,500
KENTUCKY						
UNDESIGNATED						
Smith Drlg	12	dsl	450	Challenger M-320	400	5,000
DAVIESS						
Crescent Drlg	4	dsl	400	Bethlehem S-45	400	4,000
HENDERSON						
Crescent Drlg	8	dsl	400	Bethlehem S-45	400	5,000
NRG Drlg	1	dsl	335	National T-12	185	4,500
HOPKINS						
Weal Drlg	1	dsl	325	National T-12	335	4,000
	2	dsl	335	Cardwell S	335	4,000
LETCHER						
Ray Resources	4	dsl	450	Ideco BIR-5525	450	6,000
OHIO						
J-V Drlg	8	dsl	145	Speedstar SS-15-S	145	2,000/2⅞"

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
KENTUCKY (Cont'd)						
WEBSTER						
Kendall Drlg	1	dsl	300	National T-12	300	3,500
LOUISIANA						
UNDESIGNATED						
American Well Serv & Drlg	15	dsl	1700	Brewster DH1-4610	900	12,000
Comet Drlg	16	dsl-elec	3200	Gar-Den 3000-E	3000	30,000
Eljay Drlg	4	dsl-scr	3400	OILWELL E-3000	3000	30,000
Glendel Drlg	5	dsl-elec	3200	Gar-Den 1100-E	1650	16,000
	6	dsl-elec	3200	Gar-Den 1100-E	1650	16,000
Harris Well Serv	17	dsl	316	Ideco H-35	316	7,500
	18	dsl	316	Ideco H-35	316	7,500
	19	dsl	316	Ideco H-35	316	7,500
	21	dsl	316	Ideco H-35	316	7,500
	22	dsl	316	Ideco H-35	316	7,500
	23	dsl	316	Ideco H-37	480	8,000
	24	dsl	316	Ideco H-35	316	7,500
	25	dsl	632	Ideco H-44	632	10,000
	26	dsl	632	Ideco H-44	750	10,000
	27	dsl	316	Ideco H-35	316	7,500
	28	dsl	316	Ideco H-35	316	7,500
	29	dsl	316	Ideco H-35	316	7,500
	30	dsl	2000	Ideco 1200	1400	13,500
	31	dsl	316	Cooper LTD-350	316	7,500
	32	dsl	316	Ideco H-35	316	7,500
	33	dsl	900	Ideco H-44	900	10,000
Mosley Well Serv	7	dsl		Cabot/F	475	10,000
Murco Drlg	14	dsl-scr	3200	Gar-Den 1500	2800	25,000
Power Rig Drlg	24	dsl-elec	3300	EMSCO C-3	3000	30,000
	25	dsl-elec	2000	Ideco E-1700	2400	16,000
Richards Drlg Assoc	10	dsl-elec	3400	OILWELL E-3000	3000	30,000
	11	dsl	2500	OILWELL 860	2400	18,000
Santa Fe Drlg	120	dsl-elec	3400	EMSCO C-311-E	3000	25,000
	121	dsl-elec	3400	OILWELL 2000-E	3000	25,000
	95	dsl-elec	2800	OILWELL E-2000	1500	20,000
Southland Drlg	14	dsl	2225	EMSCO A-1500	2500	24,000
	16	dsl	1925	Brewster N-12-A	2200	17,000
ACADIA						
Cliffs Drlg	26	dsl	1000	National 110	1000	16,000
Comet Drlg	10	dsl	1600	Cabot/Franks 900	900	10,500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LOUISIANA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
ACADIA (Contd)						
Delta Drlg	83	dsl	2600	EMSCO C-1	2331	18,000
	93	dsl-scr	2000	EMSCO D-3	2597	16,000
MGF Drlg-Lafayette	43	dsl	1800	OILWELL 96	1200	18,000
	44	dsl	2000	M-CSCO U-914	1500	17,000
Power Rig Drlg	9	dsl	1850	EMSCO D-3	1450	14,000
Resource Drlg	9	dsl	2330	National 110	2740	18,000
ALLEN						
Circle Bar Drlg	4	dsl	1300	OILWELL 96	1500	15,000
Woolf & Magee	11	dsl	850	Bethlehem S-45	475	9,500
ASCENSION						
Goldrus Drlg	14	dsl-elec	1200	Brewster N-75	1176	13,000
ASSUMPTION						
Cliffs Drlg	16	dsl	1300	National 1320	1300	25,000
Goldrus Drlg	11	dsl	1500	Brewster N-12-A	2000	16,000
Nicklos Drlg	79	dsl-elec				
Wilson Bros Drlg	5	dsl	2600	National 110-M	2700	20,000
AVOYELLES						
Justiss Oil	35	dsl	1250	EMSCO J-1400	1200	18,000
BEAUREGARD						
Glasscock Drlg	63	dsl	2200	National 110	1700	16,000
Goldrus Drlg	16	dsl	1250	Bethlehem MA-810	1176	13,000
	21	dsl	1200	Cabot/Franks 1000	872	13,500/4"
Loffland Bros	103	dsl-elec	3300	M-CSCO U-1220-EBD	3300	30,000
	167	dsl	2160	M-CSCO U-914-C	2400	20,000
Woolf & Magee	12	dsl	850	Ideco H-35-S	475	10,000
BIENVILLE						
Butler Johnson	4	dsl	1200	Brewster N-75	1200	12,500
Justiss Mears	22	dsl	1800	National 80-B	1420	14,000
Noble Drlg	N-59	dsl	800	National 55	800	12,000
Remco Drlg	1	dsl	900	Cabot/Franks 2042	475	10,000
Sawyer Drlg & Serv	1	dsl	700	Brewster N-7	700	11,000
	12	dsl	900	Wilson Giant	900	12,000
	2	dsl	400	Brewster N-4	400	8,500
	8	gas	1100	Brewster N-7	1100	11,500
Wheless Drlg	2	dsl	1200	EMSCO D-2	1200	11,000
BOSSIER						
Kern Drlg	4	gas	700	EMSCO GB-500	700	9,500
N & C Drlg	4	dsl	1600	National 610	800	13,000
Paramount Drlg	3	dsl	650	Bethlehem S-45	650	10,000/3½"
	9	dsl	1650	EMSCO EDA	1650	15,000
CADDO						
Lagersen Drlg	6	dsl-elec	2000	EMSCO EIIC	2500	20,000
	7	dsl-elec	2000	EMSCO EIIC	2500	20,000
CALCASIEU						
Goldrus Drlg	4	dsl	1200	Brewster N-75	1040	1,000
Great Southern Oil & Gas	37	dsl	1000	Ideco	636	10,000
Grey Wolf Drlg	3	dsl-elec	3000	EMSCO ECB	2000	25,000
Lama Drlg	1	dsl	600	Ideco H-4	350	9,000/4"
Woolf & Magee	4	dsl	850	Bethlehem S-45-E	475	9,500
CAMERON						
CRC Mallard Well	20	dsl	1300	Wilson 90	800	14,500
Delta Drlg	16	dsl	2300	National 130	2250	25,000
	65	dsl	2300	EMSCO C-1	2331	18,000
Glasscock Drlg	70	dsl	1600	National 80-B	1600	14,000
Goldrus Drlg	15	dsl	1740	Bethlehem M-810	1560	16,000
Inland Well Serv	6	dsl	800	Gar-Den 700	700	12,000
Power Rig Drlg	12	dsl	3200	EMSCO A-1500-M	2200	30,000
	16	dsl	2350	Brewster N-12-A	2800	20,000
	20	dsl	1350	EMSCO C-1	1350	18,000
	7	dsl	1850	EMSCO A-800	1800	12,500
Sanders Drlg	1	dsl	900	EMSCO A-800	1100	14,000
Welsh Drlg & Serv	15	dsl-elec	2700	M-CSCO 914-EU	3000	16,000
Woolf & Magee	6	dsl	850	Bethlehem S-45-E	475	9,500
CLAIBORNE						
Butler-Johnson	5	dsl	1800	Brewster N-95	1800	20,000
Lagerson Drlg	5	dsl-elec	1600	EMSCO J-750-E	1250	14,000
Murco Drlg	6	dsl	2200	Brewster N-95	1000	14,000
Sawyer Drlg & Serv	6	gas	1200	Brewster N-75	1200	13,000
Wheless Drlg	3	dsl	1800	EMSCO C-1-3	1800	18,000
CONCORDIA						
Energy Drlg	2	dsl	535	Ideco H-35-S	500	9,500
DE SOTO						
Gibson Drlg	3	dsl	820	Wilson Mogul 42	666	6,500

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LOUISIANA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
DE SOTO (Contd)						
H & S Drlg	1	dsl	1700	Brewster N-95	2145	14,000
	1	dsl	1700	Brewster N-95	2145	14,000
Sawyer Drlg & Serv	10	gas	1200	Whlnd 1000	1200	13,000
Schlensker Drlg	5	dsl	950	Unit U-15	950	10,000
United Drlg Co of Tyler	10	dsl	950	Unit U-34	470	8,000
EAST BATON ROUGE						
Cliffs Drlg	24	dsl	1300	National 1320	1300	25,000
Comet Drlg	14	dsl	2600	Gar-Den	3000	22,000
Goldrus Drlg	22	dsl	1250	Cabot/Franks 1000	872	13,500
	3	dsl-elec	1700	OILWELL E-2000	3400	20,000
Helmerich & Payne Intl Drlg	71	dsl	2600	National 1320-M	3300	20,000
Loffland Bros	115	dsl-elec	3200	M-CSCO U-1220-EBD	3000	28,000
	116	dsl-elec	3200	M-CSCO U-1220-EBD	3000	30,000
Merit Drlg	4	dsl-scr	2800	OILWELL 2000-E	2000	25,000
Penrod Drlg	122	dsl	1300	National 1625-M	2000	25,000
EAST FELICIANA						
Cliffs Drlg	31	dsl	1300	National 110	1300	20,000
Comet Drlg	6	dsl	1600	Ideco Super 7-11	1600	16,500
Glasscock Drlg	71	dsl	1100	National 110	1500	20,000
Power Rig Drlg	22	dsl-elec	2700	Ideco 3-1700	1700	18,000
EVANGELINE						
Parker Drlg	2	dsl	1200	OIME SL-1000-P	1200	14,000
Pernie Bailey Drlg	5	dsl	1500	National 55	1100	12,000
	8	dsl	2000	National 110-M	1500	20,000
FELICIANA						
Penrod Drlg	4	dsl	3425	EMSCO C-3	2200	30,000
FRANKLIN						
Underwood Oil Well Serv	12	dsl	350	Brewster N-3	350	4,000/3½"
GRANT						
Delta Drlg	97	dsl	2000	EMSCO J-1100	1560	16,000
IBERIA						
Delta Drlg	82	dsl-scr	3200	EMSCO C-11	3456	25,000
Glasscock Drlg	69	dsl	2700	National 1320	2700	20,000
Great Southern Oil & Gas	5	dsl	500	Wilson	318	7,000
Resource Drlg	RD-24	dsl	2330	National 110	2740	18,000
IBERVILLE						
American Well Serv & Drlg	11	dsl	1700	Brewster HI-4610A-38	575	8,000
Glasscock Drlg	72	dsl	800	National 80-B	1250	12,000
Goldrus Drlg	9	dsl	1750	Bethlehem M-810	1560	16,000
Grey Wolf Drlg	1	dsl	1170	EMSCO C-1	1170	16,000
MGF Drlg-Lafayette	42	dsl	1500	OILWELL 96	1500	16,000
Power Rig Drlg	15	dsl	2350	EMSCO 1013-B	2265	16,000
	17	dsl	2000	Ideco 7-11	2000	16,000
JACKSON						
Butler-Johnson	3	gas-btne	1200	EMSCO A-550	1200	13,500
Justiss Oil	11	dsl	1200	EMSCO GB-800	1600	14,000
Paramount Drlg	10	dsl	1350	National 75-CB	1350	14,000
Wheless Drlg	4	dsl	1800	EMSCO J-1100	1800	16,000
JEFFERSON						
Delta Drlg	25	dsl	2300	EMSCO C-1	2592	18,000
Grey Wolf Drlg	2	dsl-elec	3000	EMSCO C-11	2000	25,000
Inland Well Serv	14	dsl	2400	Brewster N-95	1600	18,000
JEFFERSON DAVIS						
Comet Drlg	12	dsl	1600	Cabot/Franks 1200	1200	13,500
	4	dsl	1250	Brewster N-75	750	12,000
Grey Wolf Drlg	8	dsl-elec	3000	EMSCO C-Z II	2000	25,000
MGF Drlg-Lafayette	47	dsl	1800	Ideco S-7-11	1500	17,000
Penrod Drlg	11	dsl	2600	National 1320-M	3425	25,000
Power Rig Drlg	18	dsl	3200	EMSCO C-2	2000	25,000
	8	dsl	2000	Ideco 7-11	2000	15,000
LA SALLE						
Justiss Oil	37	dsl	200	JF J-500	225	5,000
	39	dsl	300	JF J 6500	400	6,500
LAFAYETTE						
Explorer Drlg	10	dsl	1836	Bethlehem	1750	12,500
	14	dsl	1300	Cabot/Franks 2650	2000	13,500
	18	dsl	1300	Cabot/Franks 2650	2000	13,500
	20	dsl	800	Brewster TR-800	2000	10,000
	8	dsl	1836	Ideco H-1700	2000	15,000
	9	dsl	1300	EMSCO U-914-C	2730	20,000
Glasscock Drlg	62	dsl	2000	National 110	1700	16,000
	68	dsl	2700	National 1320	2700	20,000
Inland Well Serv	11	dsl	500	National 55	1100	10,000
Welsh Drlg & Serv	17	dsl	2600	National 110-M	2550	16,000
Wilson Bros Drlg	3	dsl	2600	National 1320	2700	30,000
LAFOURCHE						
Cliffs Drlg	18	dsl	1300	National 110	1300	20,000
Grey Wolf Drlg	7	dsl-elec	3000	EMSCO C-11	2000	25,000

LOUISIANA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
LINCOLN						
Butler-Johnson	10	dsl	1500	Gar-Den M-800	1500	14,000
Noble Drlg	N-812	dsl	1420	National 80-B	1420	15,000
Sawyer Drlg & Serv	5	dsl	1500	Brewster N-75	1500	13,000
Wilson Bros Drlg	10	dsl	2200	National 110	2100	20,000
LIVINGSTON						
Dual Drlg	22	dsl	3200	National 1320-M	2000	22,000/5"
	28	dsl	3400	OILWELL E-2000	2000	30,000
Eagle Prod & Drlg Serv	3	dsl-elec	2000	OILWELL E-2000	2000	25,000
Goldrus Drlg	2	dsl-elec	2000	OILWELL E-2000	2000	25,000
Parker Drlg	175	dsl	3000	OIME Hercules 3000-E	3000	30,000
Power Rig Drlg	14	dsl	2600	EMSCO A-1500	2000	25,000
Wilson Bros Drlg	8	dsl	1750	National 110	1750	16,000
MORGAN						
Inland Well Serv	7	dsl	800	Gar-Den	700	12,000
OUACHITA						
TR Drlg	3	dsl	300	Bethlehem S-45-A	200	3,500
PLAQUEMINES						
CRC Mallard Well	15	dsl	1300	Wilson 90	800	14,500
	17	dsl	1300	Wilson 90	800	14,500
MGF Drlg-Lafayette	41	dsl	1600	OILWELL 96	1600	15,000
POINTE COUPEE						
Cliffs Drlg	27	dsl	1300	National 1320		25,000
	30	dsl	1300	National 1320	1300	25,000
Dual Drlg	9	dsl	3200	National 1320-M	2000	25,000
Eljay Drlg	1	dsl-scr	2800	OILWELL E-2000	2000	25,000
	2	dsl-scr	2800	OILWELL E-2000	2000	25,000
MGF Drlg-Lafayette	401	dsl-elec	1600	National 320-UE	2000	25,000
Merit Drlg	1	dsl-scr	2800	OILWELL 2000-E	2000	25,000
Parker Drlg	165	dsl	3000	OIME Hercules 3000-E	3000	30,000
	174	dsl	3000	OIME Hercules 3000-E	3000	30,000
	180	dsl	3000	OIME Hercules 3000-E	3000	30,000
Penrod Drlg	1	dsl	3425	National 1625-M-6	2200	30,000
	10	dsl	2600	National 1320-M	3425	25,000
	110	dsl	1600	National 1625-M	2200	30,000
	27	dsl	2600	EMSCO C-2	2000	25,000
	28	dsl	3425	National 1320-M	2200	25,000
Resource Drlg	12	dsl	3105	National 1625	3740	30,000
	8	dsl	2330	National 110	2740	18,000
RAPIDES						
Rebel Drlg	3	dsl	500	Ideco H-30	400	9,000
RED RIVER						
Justiss Oil	9	dsl	800	EMSCO GC-500	1200	12,500
Sawyer Drlg & Serv	11	dsl	600	Wilson Giant	400	9,000
ST CHARLES						
American Well Serv & Drlg	14	dsl	1700	Brewster HI-4610-A	575	10,500
Wilson Bros Drlg	9	dsl	2600	National 110	2700	20,000
ST HELENA						
Penrod Drlg	24	dsl	2600	Brewster N-12-A	1950	25,000
ST JAMES						
Glasscock Drlg	64	dsl	2200	National 110	1700	16,000
ST LANDRY						
Amoy Drlg & Well Serv	55	dsl	1500	National 110	1500	16,000
Culver Drlg	10	dsl	1850	National 110	1650	16,000
Eljay Drlg	3	dsl-scr	3400	OILWELL E-3000	3000	30,000
Great Southern Oil & Gas	42	dsl	665	Ideco	636	10,000
Noble Drlg	OW-21	dsl-elec	3300	OILWELL E-2000	3300	25,000
Penrod Drlg	17	dsl	2600	National 1320-M	3425	25,000
	29	dsl	3425	National 1320-M	2200	25,000
Pernie Bailey Drlg	4	dsl	2900	National 1320-M	3000	20,000
Wilson Bros Drlg	6	dsl	2600	National 1320	2700	30,000
	7	dsl	1400	National 80-B	1400	12,500
ST MARTIN						
Comet Drlg	8	dsl	1600	Cabot/Franks 1200	1200	13,500
Delta Drlg	31	dsl	2300	EMSCO C-1	1560	20,000
Glasscock Drlg	61	dsl	1400	National 60-B	1250	13,500
ST MARY						
CRC Mallard Well	14	dsl	1300	Wilson 90	800	14,500
Goldrus Drlg	7	dsl	1750	Brewster N-95	1560	16,000
Grey Wolf Drlg	6	dsl-elec	3000	EMSCO C-II	2000	25,000
Penrod Drlg	117	dsl	1300	National 1625-M	2000	25,000
	8	dsl	2600	National 1320-M	3425	25,000
Pernie Bailey Drlg	6	dsl	3000	National 110-M	3000	18,000
	7	dsl	1200	Gar-Den 800	1200	11,000
Power Rig Drlg	23	dsl-elec	2000	EMSCO C-2	2000	30,000
	11	dsl	2700	EMSCO A-1500	2000	25,000
Wilson Bros Drlg	12	dsl	1850	National 110	1850	16,000
	2	dsl	1900	National 110	1900	20,000
ST TAMMANY						
Culver Drlg	11	dsl	2000	Gar-Den 1100	1650	16,000
TENSAS						
Eagle Drlg Co	1	dsl	318	1968 Gar-Den 3000	220	3,000

LOUISIANA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
TENSAS (Contd)						
New & Hughes Drlg	5	dsl	450	Spencer 5000	500	7,000
	7	dsl	500	M-CSCO U-34	525	8,000
TERREBONNE						
CRC Mallard Well	12	dsl	800	Wilson Model 90	800	11,000
	16	dsl	1300	Wilson 90	800	14,000
	18	dsl	1300	Wilson 90	800	14,500
Delta Drlg	47	dsl	2300	National 130	2250	20,000
Glasscock Drlg	65	dsl	2200	National 110	1700	16,000
Goldrus Drlg	8	dsl-elec	1750	OILWELL 840-E	1700	18,000
Inland Well Serv	15	dsl	2400	Brewster N-95	1600	18,000
MGF Drlg-Lafayette	46	dsl	1800	Ideco S-7-11	1500	17,000
Murco Drlg	26	dsl	2800	OILWELL N-2000-B	3000	30,000
Resource Drlg	3	dsl	3105	National 1320	3740	25,000
Sanders Drlg	2	dsl	3200	Brewster N-12-A	3000	25,000
UNION						
Justiss Oil	10	dsl	500	Brewster N-45	600	10,000
Sawyer Drlg & Serv	7	gas	900	Ideco 750	900	12,500
Shuler Drlg	7	dsl		Spencer	600	6,000
VERMILION						
Delta Drlg	35	elec-scr	2550	EMSCO C-1	2592	20,000
	85	dsl-scr	2900	EMSCO C-11	3456	25,000
Glasscock Drlg	66	dsl	2700	National 1320	2700	20,000
Grey Wolf Drlg	4	dsl	1500	EMSCO GB-800	800	12,500
	5	dsl-elec	3000	EMSCO EDA	2000	25,000
Murco Drlg	46	dsl-scr	2800	OILWELL E-2000	2000	30,000
Noble Drlg	OW-31	dsl-elec	3135	OILWELL E-3000	3135	25,000
Penrod Drlg	18	dsl	2250	National 1625-M6	2200	10,000
Pernie Bailey Drlg	2	dsl	2000	80-B	1950	14,000
	3	dsl	2000	Brewster N-12		18,000
Power Rig Drlg	10	dsl	2600	EMSCO A-1500	1450	30,000
	21	dsl	3500	EMSCO C-2	2000	30,000
T-L Drlg	20	dsl	2700	Brewster N-95-A	2700	17,000
Wilson Bros Drlg	11	dsl	2400	National 110	2700	20,000
	16	dsl	2600	National 1320	2700	30,000
	4	dsl	2600	National 110	2700	20,000
WASHINGTON						
Chesley Pruet Drlg	15	dsl	4800	EMSCO C-3	4800	30,000
Tesoro Drlg	4	dsl	2600	National 1320-M	2742	25,000
	6	dsl	2600	National 1625-M	2742	30,000
WEBSTER						
Butler-Johnson	1	dsl	1900	Brewster N-85	1900	15,000
Nelson Drlg & Well Serv	1	dsl	600	Spencer 7000	500	9,000/4"
Noble Drlg	E-553	dsl	800	EMSCO A-550	800	12,000
WEST BATON ROUGE						
Eagle Prod & Drlg Serv	2	dsl-elec	2000	OILWELL E-2000	2000	25,000
Exeter Drlg Southern	32	dsl	2800	Gar-Den 1500	2800	25,000
Helmerich & Payne Intl Drlg	73	dsl-elec	3400	OILWELL 3000-M	3400	30,000
WEST FELICIANA						
Cliffs Drlg	32	dsl	1300	National 110	1300	20,000
Delta Drlg	76	dsl-scr	3200	Gar-Den 3000-RE	4600	30,000
Goldrus Drlg	5	dsl-elec	3400	OILWELL E-2000	1700	20,000
Helmerich & Payne Intl Drlg	41	dsl	1650	National 110	1650	22,000
Nicklos Drlg	25	dsl	2000	EMSCO A-1500	2119	20,000
Resource Drlg	11	dsl	3105	National 1625	3740	30,000

MARYLAND

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
GARRETT						
Ray Resources	8	dsl	450	Brewster N-55	800	10,000

MICHIGAN

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Cactus Drlg Ltd	22	dsl	1000	EMSCO GC-500	1000	12,500
	23	dsl	880	EMSCO GC-500	880	11,500
Nicor Drlg	21	dsl	800	Ideco H-35	510	7,000
	23	dsl	320	National T-12	290	4,500
BAY						
Bigard James Drlg	3	dsl	600	Cabot/Franks 550	550	7,500
CALHOUN						
Bigard James Drlg	7	dsl	600	Ideco H-37	535	7,500
CLARE						
Provins T D Drlg	3	dsl	600	Ideco 1000	1000	10,000
CRAWFORD						
Provins T D Drlg	4	dsl	600	Cooper 550	500	8,000
EATON						
Bigard James Drlg	16	dsl	475	Ideco H-44	600	8,500
	5	dsl	600	Wilson 65	535	7,000
GRAND TRAVERSE						
Cactus Drlg Corp	17	dsl	1000	Brewster N-55	800	11,000
Nicor Drlg	24	dsl	650	Ideco H-525	850	8,500
HILLSDALE						
Scott Don Drlg	5	dsl	550	Ideco H-1000	900	8,000
INGHAM						
L & G Drlg	2	dsl	500	Wilson 65	600	8,000

MICHIGAN (Cont'd)

Contractor	Rig No	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
KALKASKA						
Cactus Drlg Corp	12	dsl	1000	OILWELL 66	800	10,000
	21	dsl	1000	Bethlehem M-58	800	12,000
Provins T D Drlg	2	dsl	600	Ideco H-37	456	8,000
	6		600	Ideco 700	700	9,000
LAPEER						
Bigard James Drlg	1	dsl	535	Ideco H-35	318	5,500
MANISTEE						
Bigard James Drlg	10	dsl	700	Ideco H-44	600	8,500
	8	dsl	600	Ideco H-44	600	8,500
Cactus Drlg Corp	28	dsl	1070	National 50-A	800	10,000
Nicor Drlg	22	dsl	1200	Ideco H-35	720	7,000
MASON						
Provins T D Drlg	1	dsl	500	Cooper 5656	350	4,000
MECOSTA						
Michigan Consolidated Gas	2	dsl	350	Walker-Neer C-25-A	350	4,500
	4	dsl	500	Ideco DI-7015	600	7,500
MISSAUKEE						
Bigard James Drlg	11	dsl-elec	1000	Ideco ED-1200	2000	20,000
	12	dsl-elec	1000	Ideco ED-1200	2000	20,000
	14	dsl	600	Ideco H-1000	1000	12,000
	15	dsl	600	Ideco H-1000	1000	12,000
	9	dsl	600	Ideco H-44	600	8,500
L & G Drlg	3	dsl	500	EMSCO GB-350	600	10,000
OSCEOLA						
Provins T D Drlg	7	dsl	600	Ideco H-1000	1000	12,000
	8	dsl	600	Ideco H-1000	1000	12,000
	9	dsl	900	Cabot/Franks 1500	1500	20,000
OSCODA						
Provins T D Drlg	5	dsl	600	Ideco 1000	1000	10,000
OTSEGO						
Cactus Drlg Corp	16	dsl	1070	National 50-A	850	10,000
ROSCOMMON						
L & G Drlg	1	dsl	398	Ideco H-35	398	5,000

MINNESOTA

Contractor	Rig No	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
TWIG						
Exeter Drlg Northern	2	dsl	375	EMSCO GA-250	460	7,500

MISSISSIPPI

Contractor	Rig No	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
ADAMS						
D & D Drlg	1	dsl	325	Brewster N-4-A	350	8,000
Energy Drlg	H-35-S	dsl	400	Ideco H-35-S	540	9,000
	1	dsl	400	Bethlehem S-45-A	350	7,000
New & Hughes Drlg	9	dsl	450	Spencer 5000	550	7,000
Rebel Drlg	1	dsl	300	Brewster N-4	300	6,500
	2	dsl	350	Bethlehem S-455	350	8,000
Wilcox Drillers	4	dsl	350	Ideco H-30	350	7,500/3½"
CLARKE						
Murco Drlg	10	dsl	2200	Brewster N-95	2400	20,000
Rapad Drlg	2	dsl	1800	EMSCO GB-500	1200	13,500
CLAY						
Crescent Drlg	7	dsl	1200	Bethlehem Toro	1200	12,000
Penrod Drlg	7	dsl	3425	National 1625-M-6	2200	30,000
FRANKLIN						
D & D Drlg Co	3	dsl	450	Brewster N-45	350	8,000
New & Hughes Drlg	14	dsl	1500	EMSCO C-2	2000	22,000
Par-Co Drlg	1	dsl	300	Ideco H-30	300	6,000
HANCOCK						
Chesley Pruet Drlg	16	dsl	3600	EMSCO C-2	3600	30,000
Lama Drlg	8	dsl	1300	National 100	1300	14,000
	112	dsl	1600	National 1625-M	3000	30,000
HINDS						
Helmerich & Payne Intl Drlg	87	dsl-elec	1600	National 1625-M	4850	20,000
JACKSON						
Tesoro Drlg	2	dsl	2300	National 1320-M	2742	20,000
JASPER						
Justiss Oil	24	dsl	3600	EMSCO J-1400	3000	22,000
Penrod Drlg	109	dsl	2000	Brewster N-75-A	1760	15,000
JEFFERSON						
Dual Drlg	7	dsl	2800	National 1320-M	2000	25,000
JEFFERSON DAVIS						
Chesley Pruet Drlg	14	dsl	3600	Gar-Den 1500	3600	25,000
Exetur Drlg Southern	15	dsl	2550	Gar-Den 1100	1550	18,000
Helmerich & Payne Intl Drlg	40	dsl	1545	OILWELL 860	1545	20,000
	45	dsl-elec	3000	National 1320-UE	3000	26,000
	79	scr	2200	National 110	1500	20,000
Loffland Bros	114	dsl-elec	3300	M-CSCO U-1220-EBD	3300	30,000
JONES						
Murco Drlg	18	dsl	2800	M-CSCO U-1220	2400	25,000
Rapad Drlg	4	dsl-elec	2000	EMSCO C-1	4000	25,000

MISSISSIPPI (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
LAMAR						
Marion Drlg	2	dsl	2400	EMSCO C-1	2400	20,000
LAWRENCE						
Goldrus Drlg	1	dsl-elec	2000	OILWELL E-3000	3000	30,000
LINCOLN						
Marion Drlg	4	dsl	2400	EMSCO Model C-2	2400	25,000
	5	dsl	2400	OILWELL M-2000	2400	25,000
Penrod Drlg	106	dsl	1575	National 80-B	1760	15,000
MADISON						
Helmerich & Payne Intl Drlg	72	dsl	3270	OILWELL 3000-M	3270	30,000
MARION						
Chesley Pruet Drlg	12	dsl	3600	EMSCO C-2	3600	25,000
Exeter Drlg Southern	16	dsl	2600	Gar-Den 1500	2600	25,000
	27	dsl	2800	Gar-Den 1500	2800	25,000
Helmerich & Payne Intl Drlg	75	dsl	3200	National 1625-M	3740	15,500
Lohmann-Johnson Drlg	9	dsl	300	National T-12	300	3,500
Murco Drlg	22	dsl	2400	Brewster N-95	2400	20,000
Rapad Drlg	3	dsl-elec	4000	Gar-Den 1500-E	2000	25,000
Tesoro Drlg	3	dsl	2600	National 1320-M	2742	25,000
MONROE						
Resource Drlg	10	dsl	2330	National 110	2740	18,000
Warrior Drlg & Engr	2	dsl	360	Unit 15	300	4,000
PERRY						
Marion Drlg	1	dsl	1800	EMSCO Model M-810	1800	17,000
PIKE						
Helmerich & Payne Intl Drlg	77	dsl	2100	National 110	2000	17,000
Lama Drlg	9	dsl	1000	Wilson Titan	1000	12,000/4"
RANKIN						
Loffland Bros	330	dsl	2400	M-CSCO U-1220	2775	22,000
Penrod Drlg	21	dsl	2600	National 1320-M	1950	15,000
ROOSEVELT						
Bomac Drlg	37	dsl	750	National 50-A	750	10,500
SCOTT						
New & Hughes Drlg	8	dsl	1200	National 80-B	1200	15,000
SIMPSON						
Helmerich & Payne Intl Drlg	86	dsl-elec		National 1625-DE	3850	30,000
Penrod Drlg	6	dsl	3425	National 1625-M-6	2200	30,000
SMITH						
Helmerich & Payne Intl Drlg	74	dsl	3400	OILWELL	3740	30,000
Lama Drlg	5	dsl	1000	National 75	1000	13,500/4"
	7	dsl	1740	National 100	1740	15,500
Resource Drlg	6	dsl	2330	National 110	2740	18,000
Tesoro Drlg	5		2000	National 80-B	1650	15,000
STONE						
Penrod Drlg	5	dsl-elec	3425	EMSCO C-3	3200	30,000
WALTHALL						
Marion Drlg	6	dsl	3300	EMSCO Model C-3	3300	30,000
WARREN						
Justiss Oil	16	dsl	600	EMSCO GB	900	12,000
	7	dsl	1800	EMSCO J-1400	2900	20,000
Penrod Drlg	12	dsl	3850	Gar-Den 1500	2120	20,000
WAYNE						
Justiss Oil	23	dsl	1800	EMSCO J-1100	2400	20,000
Loffland Bros	328	dsl	2160	National 130	2400	22,500
WILKINSON						
Penrod Drlg	120	dsl	1600	National 1625-M	3000	30,000
YAZOO						
Delta Drlg	96	dsl-elec	2600	EMSCO C-1	3456	20,000

MONTANA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Bird Drlg	2	dsl	350	EMSCO 250	500	7,500
	5	dsl	350	National 370	800	9,000
Cardinal Drlg	3	dsl	400	EMSCO SOS 6000-S	400	6,500/3½"
Comanche Drlg Co	4	dsl	270	Mayhew 2500-A	220	2,500
Hi Tower Drlg	23	dsl	1100	National 50-A	810	9,000
	6	dsl	1020	OILWELL 76	1020	12,000
BAKER						
GCO Drlg	3	dsl	820	M-CSCO U-15	650	10,000
	4	dsl	1300	National 50-A	850	11,500
BLAINE						
KB Drlg	1	dsl	278	Cardwell A-150-A Double Drum	185	4,500
	2	dsl	278	Cardwell AH-91 Single Drum	185	5,000/3½"

MONTANA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
BROADWATER						
Molen Drlg	4	dsl	1350	Brewster N-75-A	1350	14,000
CARBON						
Anderson-Myers Drlg	15	dsl	1800	Brewster N-75-A	1500	14,000
Molen Drlg	1	dsl	350	EMSCO GB-250-T	350	5,500
DANIELS						
Anderson-Myers Drlg	5	dsl	1000	EMSCO GB-500	820	10,000
Helmerich & Payne Intl Drlg	53	dsl-elec	1150	Ideco H-525	1300	10,900
DAWSON						
Nicor Drlg	40	dsl	800	OILWELL 600	600	11,000
	41	dsl	1000	Gar-Den 1100-M	1500	18,000
GARFIELD						
Brinkerhoff-Signal	82	dsl	1500	Gar-Den 700-M	1500	14,000
GLACIER						
Comanche Drlg Co	5	dsl	430	Ideco H-30	400	5,000
General Well Serv	6	dsl	450	Cardwell KB-210-A	400	5,000/3½"
Molen Drlg	2	dsl	800	Brewster N-46	800	10,000
GRANITE						
Enopco	1	dsl	2430	National 110-M	2430	20,000
HILL						
Elenburg Expl	2	dsl	420	Walker-Neer CC-2000	180	2,500
LIBERTY						
Comanche Drlg Co	2	dsl	430	Ideco H-30	400	5,000
Elenburg Expl	10	dsl	350	Lee Engineer	350	5,000
MC CONE						
Bomac Drlg	25	dsl	1650	Bethlehem 810		
	57	dsl	2000	Gar-Den 800	1800	16,000
Tierra Drlg	12	dsl-elec	750	BDW 800-MX	1000	14,000
MUSSELSHELL						
True Drlg	4	dsl	350	EMSCO GA-250-T	500	6,500
PARK						
Bomac Drlg	43	dsl	930	EMSCO GB-500	930	10,500
PETROLEUM						
Molen Drlg	3	dsl	700	National 50-A	700	9,000
PHILLIPS						
Elenburg Expl	8	dsl	420	Walker-Neer CC-2000	230	2,500
PONDERA						
Aikins Drlg	2	dsl	200	Bycyrus	200	3,000/2⅞"
Aspen Drlg	1	dsl	400	Ewbanks 3500	475	3,500
RICHLAND						
Atco Drlg	10	dsl-elec	2000	National 80-UE	1000	15,000
Blocker Drlg Canada	10	dsl	1000	OIME 5-D3	770	10,000
Bomac Drlg	36	dsl	1435	National 80	1435	14,000
	51	dsl	2600	National 110	2400	20,000
Brinkerhoff-Signal	21	dsl	1040	EMSCO GC-500	1040	11,500
	74	dsl	1500	Gar-Den GD-800	1500	15,000
Brown Tom	22	dsl	700	National 50-CA	700	11,000
	28	dsl	1650	Gar-Den 800	1650	16,000
Dixilyn-Field Drlg	35	dsl	1600	National 80-UE	1800	15,000
Drilcon	1	dsl	1125	Bethlehem 450	1125	11,000
	4	dsl	1860	National 110	1860	15,000
	5	dsl	1200	Ideco H-725	1000	11,500
Helmerich & Payne Intl Drlg	15	dsl	1300	OILWELL 76	1365	12,500
Kenai Drlg Rocky Mountain	27	dsl	1600	National CA-75	1200	14,000
Montgomery Drlg	45	dsl	2000	EMSCO GB-800	750	12,000/5"
Nicor Drlg	17	dsl	1100	OILWELL 76	1000	15,000
Noble Drlg	E-552	dsl	800	EMSCO A-550	800	13,000
	N-810	dsl	1606	National 80-B	1606	15,000
Parker Drlg	92	dsl	1200	National 100-M	1200	15,000
Pruet-Ram-Co	5	dsl	1800	EMSCO D-2	1200	14,000
Star Drlg	82	dsl	1000	Gar-Den GD-700	1350	12,500
Transcontinental Drlg	46	dsl	2000	National 80-B	1836	15,000
ROOSEVELT						
Atco Drlg	58	dsl-elec	1800	National 80-UE	1800	15,000
Bomac Drlg	50	dsl	1800	National 80-B	2000	16,000
Dual Drlg	27	dsl	1900	EMSCO D-3	1000	16,000
General Well Serv	21	dsl	450	Cooper LTD-550	400	6,000/3½"
Kenai Drlg Rocky Mountain	26	dsl	1200	Wilson Atlas	1200	14,000
Kenting Drlg	30-E	dsl-elec	2000	National 80-UE	1000	12,000
Star Drlg	81	dsl	1000	Gar-Den GD-800	1350	15,000
True Drlg	22	dsl	1200	National 55	1200	13,000
ROSEBUD						
Soape Drlg	1	dsl	950	National 45	950	7,500
SHERIDAN						
Bomac Drlg	39	dsl	1300	Brewster N-75	1155	12,000
Cardinal Drlg	14	dsl	375	EMSCO GB-350	375	8,500
Enopco	2	dsl	1890	National 610	1080	13,000
Nicor Drlg	16	dsl	1550	OILWELL 76	1000	15,000
Noble Drlg	N-89	dsl	800	National 80-B	800	13,000
Penrod Drlg	101	dsl	1684	Brewster N-46	1080	10,000
Pruet-Ram-Co	3	dsl	1800	EMSCO D-2	1200	15,000

MONTANA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
SHERIDAN (Contd)						
Pruet-Ram-Co	4	dsl	2000	EMSCO D-3	2000	18,000
Ratliff Drlg	6	dsl	1650	EMSCO GB-800	1650	17,000
Westburne Drlg	61	dsl	1000	National 55	1320	12,500
SIDNEY						
Arrowhead Drlg	C-1	dsl	1040	National 610	1040	12,000
TETON						
Simmons Drlg	37	dsl	660	National 370	660	8,500
TOOLE						
Aspen Drlg	2	dsl	500	Challenger M-280-DD	500	4,500
Comanche Drlg Co	1	dsl	430	Ideco H-30	400	5,000
Elenburg Expl	5	dsl	420	Walker-Neer CC-2000	180	2,500
WIBAUX						
Drilcon	3	dsl	1176	National 50-A	784	10,000
Enopco	3	dsl	1620	National 80-B	1620	17,500
Kenai Drlg Rocky Mountain	33	dsl	1350	Wilson Giant	1000	12,000
WILLISTON						
Sharp Drlg	369	dsl-elec	2000	Unit U-712-EC	1545	18,000
YELLOWSTONE						
L & R Drlg	2	dsl	250	Mayhew 2000	165	2,000/3½"
Molen Drlg	5	dsl	400	Brewster N-46	800	10,000

NEBRASKA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
BANNER						
Exeter Drlg Northern	4	dsl	375	National T-32	460	8,000
CHEYENNE						
Exeter Drlg Northern	42	dsl	375	National T-32	460	7,500
Gear Drlg	2	dsl	300	National T-32	325	6,000
DUNDY						
Murfin Drlg	20	dsl	525	National 370	600	7,500
HITCHCOCK						
Murfin Drlg	2	dsl	400	National T-32	400	5,000
	23	dsl	375	Ideco 35	475	6,500
Stoeppelwerth Drlg	1	dsl	375	National T-32	375	5,500
	2	dsl	350	Cardwell 500-L	325	4,500
KIMBALL						
Banner Drlg	3	dsl	500	National T-45	800	9,500
Gear Drlg	1	dsl	350	National 50-A	550	7,500
RED WILLOW						
Murfin Drlg	3	dsl	400	National T-25	400	5,000
Moxe Drlg	1	dsl	540	Ideco 35	380	7,000

NEVADA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
CHURCHILL						
Brinkerhoff-Signal	2	dsl	875	M-CSCO U-36-A	600	9,000
Kenai Drlg West Coast	6	dsl	875	EMSCO J-750	800	11,500
Montgomery Drlg	2	dsl-elec	2000	OILWELL 940-E	3000	18,000/5"
NYE						
Cardinal Drlg	2	dsl	864	EMSCO 3	760	8,000
Montgomery Drlg	5	dsl-elec	2700	National 1320-UE	3645	25,000/5"

NEW MEXICO

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Arapahoe Drlg	4	gas-btne	700	National 50-A	500	12,000
WEK Drlg	1	dsl	500	M-CSCO U-34	360	7,500
	2	dsl	600	Ideco H-35	440	10,500
	3	dsl	450	EMSCO S-45-E	220	6,500
BERNALILLO						
Brinkerhoff-Signal	15	dsl	2000	Gar-Den 1500	2000	20,000
Earl & Son Drlg	1	top drive	1500	Ingersoll	3800	1,500
CHAVES						
Artesia Fishing Tool	1	dsl	400	Mayhew 3000	200	4,000
Brown Tom	30	dsl	350	Unit U-15	500	8,500
Dual Drlg	6	dsl	600	EMSCO GB-350	560	7,500
Kenai Drlg of Texas	15	dsl	600	EMSCO G-500	800	11,000/4"
	15	dsl	580	EMSCO GC-500	800	11,000
L & M Drlg	1	dsl	750	G42	440	7,500
Moranco	5	dsl	750	M-CSCO U-15	750	11,000
DONA ANA						
Montgomery Drlg	7	dsl	1200	National 75	700	11,000/5"
EDDY						
Ard Drlg	3	dsl	1400	M-CSCO U-40	1200	15,000
	5	dsl	1986	M-CSCO U-20	1800	15,000
	6	dsl	1200	M-CSCO U-15	1200	11,500
	8	dsl	1900	EMSCO 800-GB	1800	16,000
Brown Tom	12	gas	700	National 50	700	10,500
Cactus Drlg Corp	8	dsl	850	Brewster N-7	1170	10,000
Hondo Drlg	1	dsl	950	M-CSCO U-15	700	10,500
	10	dsl	1250	Brewster N-75-A	1250	15,000
	6	gas	600	M-CSCO U-15	500	9,000
Kenai Drlg of New Mexico	2	dsl	2000	EMSCO J-1250	2000	15,000

NEW MEXICO (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
EDDY (Contd)						
Kenai Drlg of New Mexico	23	dsl	2000	EMSCO JB-1250	1400	15,000
Kenai Drlg of Texas	14	dsl	700	EMSCO GC-500	800	11,500
L & M Drlg	2	dsl	750	Gar-Den 3000	380	6,000/3½"
Landis Drlg	3	dsl	800	Brewster N-55	900	11,500
	4	dsl	800	Brewster N-45	700	10,000
MGF Drlg-Midland	23	dsl	1150	OILWELL 76	1150	13,500
McVay Drlg	4	dsl	850	National 75	850	12,000
	7	dsl	1200	National 75-CA	1200	13,000
	8	gas	1200	National 80-B	1200	15,000
Moranco	3	dsl	1100	M-CSCO 712-A	1000	15,000
	7	dsl	1100	Brewster N-75	1000	15,000
Parker Drlg	34	gas	1200	National 75	1200	16,000
	38	gas	1200	National 100-M	1800	18,000
Quarles Drlg	1	dsl	1800	OIME 750	750	14,500
Sharp Drlg	32	dsl	1500	EMSCO 800	1482	16,500
	63	dsl	2000	EMSCO D-3	1836	18,000
Warton Drlg	1	gas	1650	Brewster N-75	1650	13,000
	3	dsl	3300	National 110	3300	18,000
	4	gas	1300	National 100	1650	16,000
	5	dsl	1270	National 50-A	1370	11,000
	6	gas	1700	National 80-B	1320	16,000
	8		900	Cabot/Franks M-750	635	7,000
Willbaos Drlg	6	dsl	800	EMSCO G-500	800	12,000
GRANT						
Morrow Drlg	2	dsl	680	Morrow 350	350	4,000
HARDING						
Cactus Drlg (NM)	65	dsl	502	Brewster N-4	454	6,000
	66	dsl	502	Brewster N-4	454	6,000
	65	dsl	520	Brewster N-4	454	6,000
	66	dsl	520	Brewster N-4	454	6,000
Calvert Western Expl	5	dsl	950	Cabot Explorer	400	5,000
HOBBS						
Cactus Drlg (TX)	69	dsl	820	National 370	718	9,000
LEA						
Ard Drlg	2	dsl	1986	M-CSCO U-20	1800	18,000
BBL Drlg	2	dsl	500	Wilson Mogul 42	760	6,500
Cactus Drlg (NM)	18	dsl	550	National T-32		8,000
	64	dsl	875	Brewster N-45	670	7,500
	67	dsl	502	National T-32	454	6,500
	68	dsl	375	Ideco H-30	454	6,000
	64	dsl	520	Brewster N-45	670	7,500
	67	dsl	520	National T-32	454	6,500
	68	dsl	520	Ideco H-30	454	6,000
	10	dsl	800	Bethlehem M-58	984	11,000
	30	dsl	2000	National 110	2976	23,000
Delta Drlg	3	dsl	2300	EMSCO C-1	2331	18,000
	60	dsl-elec	1825	EMEO D-3	2592	15,000
Hondo Drlg	3	dsl	1200	Bethlehem M-58-C	800	13,500
	4	dsl	1450	Brewster N-75	1150	13,500
	5	dsl	1200	National 55-C	800	13,500
Kenai Drlg of New Mexico	21	dsl	1700	Unit U-20	1400	15,000
	22	dsl	1700	EMSCO J-1100	1400	15,000
Kenai Drlg of Texas	18	dsl	410	Ideco H-35	450	6,500/4"
	18	dsl	800	Ideco H-35	580	7,000
Landis Drlg	2	dsl	1000	Brewster N-75	1350	14,000
Loffland Bros	112	dsl-elec	3300	M-CSCO U-1220-EB	2200	30,000
MGF Drlg-Midland	1	dsl	750	Bethlehem M-58	750	12,500
	22	dsl	1500	OILWELL 760	1500	15,000
	25	dsl	1725	Brewster N-95	1725	19,500
	26	dsl	1725	Gar-Den 1100	1725	19,000
McVay Drlg	10	dsl	1300	National 100	1300	16,000
	9	dsl	1400	National 110	1400	18,000
Moranco	1	dsl	1100	OIME 1000-SL	1000	15,000
	2	dsl	1100	EMSCO GB-800	1000	15,000
	6	dsl	750	Brewster N-75	750	12,000
Parker Drlg	16	gas	1200	OILWELL 76	1200	16,000
	161	gas	1200	National 75	1200	16,000
	211	gas	2000	National 75	2000	22,000
	58	dsl	1650	National 100-M	1650	20,000
	85	gas	2000	National 130	2000	23,000
	89	gas	2000	National 1320	2000	23,000
Resource Drlg	RD-25	dsl	1560	National 80-B	1835	14,000
Santa Fe Drlg Western	12	dsl-elec	2000	EMSCO A-1100-E	1800	19,000
Sharp Drlg	36	dsl	2940	Bethlehem MC-950	2742	22,000
	48	dsl	1355	Bethlehem M-58	988	13,500
	62	dsl	1600	EMSCO D-3	1414	16,000
Tri-Service Drlg	8	gas-btne	750	OILWELL 76	750	13,000
Warton Drlg	2	dsl	970	National 50-A	1100	11,000
	7	dsl	1200	National 75	1300	13,000
Willbaos Drlg	1	dsl	1200	OILWELL 76	1200	14,000
	5	gas	1100	Bethlehem 450	1100	13,000
	7	gas	1275	EMSCO A-800	1275	16,000
QUAY						
Aztec Well Serv	50	dsl	400	Wilson Mogul	350	6,000
	56	dsl	400	Wilson Mogul	350	6,000
RIO ARRIBA						
Arapahoe Drlg	3	gas-btne	300	Wilson Mogul	320	6,500
Aztec Well Serv	222		750	Wilson M-75	1100	
	73	dsl	400	Cardwell KM-210	500	6,500
Bayless Drlg	5	dsl	1500	Cooper LTO-550	550	8,500

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
NEW MEXICO (Cont'd)						
RIO ARRIBA (Cont'd)						
Four Corners Drlg	10	dsl	750	Cardwell Drlg	700	8,000
	6	dsl	750	Cardwell KB-500	636	8,000
	8	dsl	750	Cardwell KB-500	636	8,000
Mesa Drillers	1	dsl	600	National 50-A	750	8,000
Young Drlg	5	dsl	750	Cardwell K-500	600	8,000
ROOSEVELT						
Cherokee Drlg & Dev	3	dsl	1150	Wilson 75	900	11,000
Republic Drlg & Serv	4	dsl-elec	1200	OILWELL 760-E	1000	14,000
	7	dsl	1000	Ideco 525	700	10,000
	8	dsl	1000	Ideco 525	800	10,000
SAN JUAN						
Aztec Well Serv	124	dsl	600	Wilson 75	1100	10,000
	171	dsl	600	Wilson M-75	700	
	75	dsl	360	Cardwell KM-210	400	4,500
Bayless Drlg	2	dsl	350	Challenger M-280	400	8,500
Brinkerhoff-Signal	79	dsl	550	National 370	800	8,500
Cactus Drlg Corp	19	gas-dsl	1070	National 50-A	984	10,000
Challenger Drlg	14-5	dsl	5500	National 125	1100	4,000
Coleman Drlg	1	dsl	800	Wilson Mogul	750	8,000
Four Corners Drlg	2	dsl	750	Cardwell KB-500	700	8,000
	4	dsl	750	Cardwell KB-500	700	8,000
	5	dsl	750	Cardwell KB-500	700	6,000
	7	dsl	750	Cardwell KB-500	636	8,000
	9	dsl	750	Cardwell KB-500	700	8,000
Kenai Drlg of New Mexico	10	dsl	800	EMSCO GA-250-T	400	6,500
	31	dsl	900	Wilson MAC 300	400	6,500
Lama Drlg	4	dsl	500	M-CSCO U-34	300	9,000
LLL Drlg	2	dsl	1720	Cavot/Franks 750	1720	13,800/3½"
Young Drlg	2	dsl	600	Ideco DIR-701	600	8,500
	3	dsl	400	Wilson 75	600	8,500
SANDOVAL						
Aztec Well Serv	184	dsl	600	Wilson M-75	1100	
Brinkerhoff-Signal	56	dsl-elec		EMSCO A-110-E		18,000
	78	dsl	1600	National 610	1100	12,500
SANTA FE						
Loffland Bros	5	dsl	1220	Ideco H-1000	868	12,000
UNION						
Baker & Taylor Drlg	18	dsl	470	EMSCO 250	470	4,500
Moran Bros	52	dsl	350	Wilson Super 38	350	4,000
	56	dsl	600	Wilson Super 38	350	4,000
NEW YORK						
UNDESIGNATED						
Underwater Gas Dev	1	dsl	250	Failing 2500	200	40,000
	2	dsl	200	Ingersoll T-5	350	40,000
	4	dsl	320	Challenger 320	320	5,000
	5	dsl	250	Failing 3500	250	40,000
Westburne Drlg Canada	11	dsl	1725	OILWELL 96	1725	20,000
	18	dsl	1680	Unit U-914-C	1680	18,000
	20	dsl	1950	M-CSCO U-1220-D	1950	20,000
	23	dsl	1050	National 50-A	700	8,500
	5	dsl	1950	National 1320-M	1950	20,000
	9	dsl	320	National T-45	460	8,500
CHAUTAUQUA						
Delta Drlg	91	dsl	255	Ideco H-35-KD	291	6,[illegible]
International Petr Serv	3	dsl	350	CP-T-750-DH	285	4,500
	6	dsl	475	Wilson 42	475	7,500
	7	dsl	475	Challenger Model 320	360	4,000
STEUBEN						
Delta Drlg	72	dsl	250	Spencer 7000	440	9,000
WYOMING						
International Petr Serv	2	dsl	275	CP-7000	375	4,000
NORTH DAKOTA						
UNDESIGNATED						
Bird Drlg	3	dsl	500	EMSCO 500	800	10,500
	4	dsl	350	EMSCO GB-350	700	8,500
	7	dsl	500	U-36-A	800	10,500
Blocker Drlg Canada	1	dsl	2000	OIME 1500-SL	1500	18,000
Farwest	3	dsl-el-scr	2000	Ideco 1200-E	1800	15,000
	4	dsl-el-scr	2000	Ideco 1200	1300	15,000
BILLINGS						
Anderson-Myers Drlg	6	dsl	1650	EMSCO GB-800	1800	15,000
	8	dsl	2000	National 80	1800	16,000
Bomac Drlg	33	dsl	2000	OILWELL 96	1500	16,000
	38	dsl	900	Gar-Den 700-M	900	11,500
	40	dsl	1000	OILWELL 76	1000	12,000
	41	dsl	1000	Brewster N-7	1000	10,500
	45	dsl	2000	Gar-Den GD-800	1800	16,000
	49	dsl	2000	Gar-Den 800	1800	16,000
Brinkerhoff-Signal	5	dsl	1500	National 80	1500	15,000
Cardinal Drlg	1	dsl	864	EMSCO 500	864	10,500
	10	dsl	1296	EMSCO GB-800	1296	13,500
	7	dsl	864	EMSCO 500	864	10,000
	9	dsl	880	National 50-CA	880	11,500
Comanche Drlg Ltd	3	dsl	500	OILWELL 66	800	10,000
Nicor Drlg	62	dsl	1000	National 610	750	12,500

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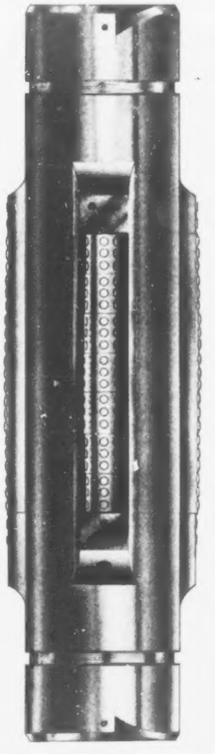

Vertical Rolling Cutter Reamer

Utilizing the Emtec Clamp-On Concept with no pin and box connections.

The new Emtec vertical rolling cutter reamer and non-rotating rubber sleeve centralizer are designed to clamp "on-the-string" with the patented Emtec Connection. There are **no pin and box connections** to twist off or wash out. Both tools can be connected at any point along the drill string to give you maximum versatility in meeting your particular drilling needs. And these tools can be connected in combination with any other Emtec Clamp-On tools and still give you full drill string strength. When you use the Emtec connection you stay connected.

Safe-String™ Vertical Rolling Cutter Reamer and Rubber Sleeve Centralizer from Emtec . . . Your Best Connection in the Oil Patch.

Emtec Safe-String™ and Sure-Grip™ tools are covered by U.S. letters of patent #4,101,179

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NORTH DAKOTA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
BILLINGS (Contd)						
Penrod Drlg	103	dsl	1760	National 80-B	2000	20,000
Ratliff Drlg	15	dsl	1650	National 80-B	1650	18,000
Republic Drlg & Serv	2	dsl-elec	1200	OILWELL 740-E	1000	14,000
Transcontinental Drlg	51	dsl	1070	OILWELL 76	1224	12,500
Westburne Drlg	53	dsl	750	National Ideal 55	950	12,000
	59	dsl	1100	Ideco M-750-D	800	10,000
	62	dsl	1050	National 50-A	1200	11,000
	63	dsl	1000	OIME SL-7	1400	15,000
BOTTINEAU						
Cardinal Drlg	8	dsl	560	National T-20	400	5,000/4"
BURKE						
Bomac Drlg	31	dsl	700	Bethlehem S-45-E	700	[illegible]
DIVIDE						
Kenting Drlg	2	dsl	1200	M-CSCO U-40	1200	14,000
Nobel Drlg	N-84	dsl	1320	National 80-B	1320	15,000
DUNN						
Blocker Drlg Canada	2	dsl	2000	OIME 1000-SL	1500	16,000
	3	dsl	1500	OIME 750-SL	1155	14,000
Bomac Drlg	35	dsl	2000	National 110	2300	20,000
	52	dsl	2000	National 80-B	1800	16,000
Brinkerhoff-Signal	10	dsl	1000	M-CSCO U-40	1000	13,000
	17	dsl	1560	National 80-B	1560	14,000
Burris Drlg	101	dsl	1000	Gar-Den 1100-M	1500	20,000
Nicor Drlg	25	dsl	1600	National 125	1200	15,000
	26	dsl	1200	National 50-A	425	11,500
	59	dsl	1400	National 55-M	700	14,500
Noble Drlg	E-551	dsl	800	EMSCO A-550	800	13,000
Pruet-Ram-Co	1	dsl-elec	2000	EMSCO D-3	2000	18,000
Republic Drlg & Serv	1	dsl-elec	1200	OILWELL 740-E	1000	14,000
Westburne Drlg	64	dsl	1680	Unit 914-C	1680	18,000
GOLDEN						
Blocker Drlg Canada	8	dsl	1600	OIME 750-SL	1155	14,000
MCKENZIE						
Amoy Drlg & Well Serv	52	dsl	1500	National 1500	1500	16,000
Atco Drlg	54	dsl-elec	1800	National 610-UE	1800	12,000
Blocker Drlg Canada	4	dsl	1500	OIME 750-SL	1155	14,000
Bomac Drlg	30	dsl	1700	OILWELL 96	1500	16,000
	42	dsl	930	National 50-A	930	10,500
	47	dsl	2000	National 80-B	1800	16,000
	48	dsl	2000	Gar-Den 800	1800	16,000
	54	dsl	1300	National 610	1200	11,500
	55	dsl	2000	Gar-Den 800	1800	16,000
Brinkerhoff-Signal	1	dsl	1100	Gar-Den 800	1100	13,000
	11	dsl	1500	National 80-B	1500	15,000
	77	dsl	1500	Gar-Den 800-M	1500	13,500
	80	dsl	1500	National 80-B	1500	16,000
	81	dsl-elec	2100	OILWELL 760-E	2100	16,000
Brown Tom	16	dsl	700	National 50-CA	700	10,500
	19	dsl	700	National CA-50	700	10,000
Burris Drlg	102	dsl	750	Gar-Den 700	800	13,500
	103	dsl	750	Gar-Den 700	800	13,500
Cactus Drlg Ltd	12	dsl	1554	National 80-B	1554	15,000
	28	dsl	1200	Brewster N-75	1200	12,500
Cliffs Drlg	14	dsl	600	EMSCO MJ-1250	600	15,000
	36	dsl	700	EMSCO JB-1250	1000	16,000
	6	dsl	800	National 610	800	12,500
Drilcon	2	dsl	1176	National 80-B	1176	14,500
Dual Drlg	17	dsl	1650	Bethlehem M-58	1100	12,500
	3	dsl	1500	Wilson 120	1650	15,000
	4	dsl	1900	National 110	1500	19,000
Helmerich & Payne Intl Drlg	38	dsl	1600	National 80	1365	16,000
	88	dsl-elec	1700	OILWELL 860	1000	16,000
Kenai Drlg Rocky Mountain	1	dsl	2200	EMSCO A-800	2450	15,000
	12	dsl	1000	National 50-A	950	10,000
Kenting Drlg	6	dsl	1500	Brewster N-85	1500	14,500
Kissinger Petroleum	5	dsl	2000	OIME 1500-SL	1500	15,000
Nicor Drlg	27	dsl	1500	Brewster N-95	1200	16,000
Nobel Drlg	N-82	dsl	1200	National 80	1200	15,000
	N-88	dsl	1200	National 80-B	1200	15,000
	N-811	dsl	1606	National 80-B	1606	15,000
	814	dsl	1606	National 80-B	1606	15,000
Parker Drlg	169	dsl	1650	OIME 1500-P	1650	20,000
Penrod Drlg	104		2000	National 80-B	1760	15,000
Republic Drlg & Serv	3	dsl-elec	1200	OILWELL 740-E	1000	14,000
Transcontinental Drlg	31	dsl	1850	Wilson 90-B	300	15,000
	38	dsl	1750	Gar-Den GD-800	1836	15,000
	39	dsl		Gar-Den GD-800	1224	13,500
	50	dsl	2000	Gar-Den GD-800	1400	15,000
Universal Drlg	2	dsl-elec	1000	Wilson 90-E	1300	13,000
MCLEAN						
Atco Drlg	8	dsl	1230	EMSCO A-550	1230	12,000
MERCER						
Blocker Drlg Canada	7	dsl	1550	OIME 750-SL	1500	14,000
MORTON						
Bomac Drlg	46	dsl	1300	National 610	1200	11,500
MOUNTRAIL						
Blocker Drlg Canada	9	dsl	1600	OIME 750-SL	1155	14,000
Bomac Drlg	26	dsl	950	M-CSCO U-15	920	9,500
MOUNTRAIL (Contd)						
True Drlg	21	dsl	1800	National 80-B	1800	15,000
RENVILLE						
Cardinal Drlg	12	dsl	400	National T-20	400	6,000/3½"
	5	dsl	541	EMSCO 250	560	7,500/4"
STARK						
Cyclone Drlg	3	dsl	1250	Unit U-30	1250	15,000
True Drlg	17	dsl	1350	National 50-A	1000	12,000
	23	dsl	1800	M-CSCO U-712-A	1800	16,000
WARD						
Bomac Drlg	21	dsl	380	Ideco H-35	330	7,000
Cardinal Drlg	6	dsl	560	EMSCO 250	440	6,000/4"
WILLIAMS						
Anderson-Myers Drlg	16	dsl	2300	National 55	1200	13,000
Blocker Drlg Canada	5	dsl	1550	Brewster N-75	1425	12,000
Bomac Drlg	27	dsl	700	Brewster N-55	920	10,000
	34	dsl	700	Brewster N-7	700	10,500
	53	dsl	2000	National 80-B	1800	16,000
Brown Tom	23	dsl	1100	National 75-CA	1100	13,000
Cardinal Drlg	22	dsl	1100	National 80-B	1650	15,000
Noble Drlg	OW-861	dsl	2400	OILWELL 860	2400	18,000
Penrod Drlg	105	dsl	1575	National 80-B	1760	15,000
Pruet-Ram Co	2	dsl	3000	EMSCO C-1	3000	20,000
Shelby Drlg	52	dsl	1500	OIME SL-7	1500	16,000
Tierra Drlg	14	dsl-elec	1000	BDW 800-MX	750	14,000
WILLISTON						
Hi Tower Drlg	8	dsl	1200	OILWELL 76	1200	10,500
Lemkco Drlg	2	dsl	800	OIME SD3/si	800	10,500
Sharp Drlg	370	dsl-elec	2000	Unit U-712-EC	1545	18,000

OHIO

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Apache Drlg	1	dsl	300	Failing	260	3,500
Midwest Drlg	11	dsl	550	Cooper LTD-550	550	8,500
Mutual of America	2	dsl	145	Mayhew 3000	280	3,000
	4	dsl	220	Waleneer R-2	280	5,000
PEP Drlg	4	dsl	470	Brewster N-35	470	7,000
ASHTABULA						
PEP Drlg	2	dsl	470	Ideco H-35-S	470	6,500
	5	dsl	550	Gar-Den 500-M	500	7,000
COLUMBIANA						
Armstrong Drlg	27	dsl		Wilson Mogul 42	280	7,500
DARKE						
Armstrong Drlg	10	dsl	380	Mayhew 3000 Port	350	4,000
GUERNSEY						
Mid Atlantic Oil	1	dsl	400	Brewster N-4	400	6,000
MUSKINGUM						
PEP Drlg	3	dsl	470	National T-45	470	7,500
NOBLE						
Mid Atlantic Oil	2	dsl		Ideco Rambler 5525	480	7,000
PERRY						
Hurt & Assoc Clint	6	dsl	350	Wilson Super 38	500	7,000
PORTAGE						
Midwest Drlg	111	dsl	425	Cooper LTD-350	425	7,500
PEP Drlg	1	dsl	470	EMSCO WS-1	470	7,500
	7	dsl	470	EMSCO WS-1	470	7,500
TRUMBULL						
Armstrong Drlg	11	dsl	380	Cabot/Franks	280	7,500
	12	dsl	380	Mayhew 3000	318	4,000
WASHINGTON						
Comanche Drlg Inc	1	dsl	300	Ewbanks SS-40	320	3,500
FWA Drlg	15	dsl	350	Wilson 38	350	4,500
	22	dsl	350	Wilson Super 38	350	4,500
	23	dsl	375	Wilson Super 38	400	6,000
Hurt Clint & Assoc	5	dsl	350	Wilson Super 38	350	5,000
Shawnee Drlg	1	dsl	300	Ewbanks SS-40	260	3,500
WAYNE						
Midwest Drlg	7	dsl	425	Ideco H-35	425	5,000
	77	dsl	425	Ideco H-35	425	5,000

OKLAHOMA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Austin Jimmie & Sons		dsl	900	Brewster N-75	900	14,000
		dsl	900	EMSCO 450	900	12,000
		dsl	1000	BDW 800-MI	900	15,000
		dsl	900	M-CSCO U-36	900	12,000
Austin Drlg		gas	700	Brewster N-75	900	14,000
		gas	600	M-CSCO	700	11
		dsl	900	M-CSCO U-36-57	1000	12,000
Austin-Dunham		dsl	850	Brewster N-75	850	15,000
		gas	1000	Brewster 75	1000	15,000
		gas	350	National 50	600	12,000
Cyclone Drlg & Workover	11	dsl	1342	Unit U-34	400	600
	7	dsl	400	Unit U-34	955	
	8	dsl	800	Unit U-34	1342	6,000

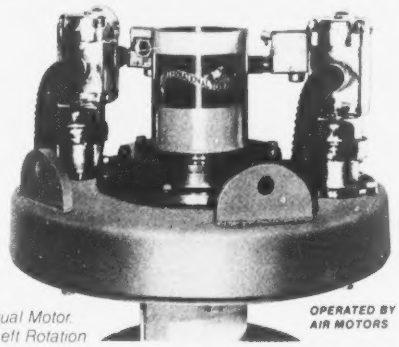
OKLAHOMA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED (Contd)						
Honeyman Drlg	5	dsl	600	OIME SD-5	784	12,000
	7	dsl	600	OIME SD-5	784	12,000
	8	dsl-elec	750	OIME SD-7-E	2000	16,000
	9	dsl	600	BDW-800 MX	1500	16,000
Johnson Bates Drlg	3	dsl	1100	M-CSCO U-34	1100	10,500
Magic Circle Drlg	17	dsl	2460	OILWELL 96	2460	20,000
Moran Bros	68	dsl-elec	3200	EMSCO C-2	2000	25,000
Pilgrim Drlg	3	dsl-elec	2500	EMSCO 1500-E	2500	25,000
Quarles Drlg	11	dsl	2600	M-CSCO U-914-C	2400	22,000
	12	dsl	2600	M-CSCO U-914-C	2400	22,000
	14	dsl	2600	M-CSCO U-914-C	2400	22,000
	15	dsl	2000	RMI 1000	1000	22,000
Quintex Drlg	4	dsl	445	Ewbanks Double Drum	250	3,000
Repco	B-H	dsl	636	Hopper	350	7,000
S & T Northern	6	dsl	1100	National 610	1100	11,500
	8	dsl	1500	National 610	1500	11,500
Santa Fe Drlg	SFW-18	dsl-elec	1700	OILWELL E-2000	20000	25,000
TRG Drlg	133	dsl	2000	Gar-Den 1100-E	2400	18,000
	134	dsl	2200	Gar-Den 1500-E	2400	22,000
	135	dsl	2200	Gar-Den 1500-E	2400	22,000
ALFALFA						
Bonray Drlg	6	gas	700	National 50-A	700	9,000
Gabbert-Jones	8	dsl	310	National T-32	310	5,500
Hughes Drlg	8	dsl	500	Ideco H-35	300	6,200
Lohmann-Johnson Drlg	8	dsl	300	National 32	550	7,500
Thomas Drlg	5	dsl	300	Wilson Giant	300	7,500
	8	dsl	300	Ideco H-35	300	7,500
ATOKA						
Big Chief Drlg	25	dsl	3000	National 110	2000	20,000
BEAVER						
Damac Drlg	3	dsl	620	Wilson Mogul	620	9,500
Eagle Drlg Inc	2	dsl	1000	National T-45	725	9,500
Freeman Drlg	1	dsl	525	Ideco H-40	600	8,500
Lohmann-Johnson Drlg	10	dsl	350	National 50	600	5,500
	18	dsl	300	M-CSCO Unit 15 S/N 239	400	6,000
Nicor Drlg	5	dsl	1000	Bethlehem C-50	450	10,000
Service Drlg (TX)	9	dsl	EMSCO DB55	M-CSCO U-15	9200	
Zenith Drlg	2	dsl	600	EMSCO GB-350	600	8,500
BECKHAM						
Baker & Taylor Drlg	4	dsl	1140	M-CSCO U-20	1140	18,000
Big Chief Drlg	45	dsl	1500	Brewster N-95-A	2250	18,000
Helmerich & Payne Intl Drlg	49	dsl	2000	National 110	1650	16,000
Loffland Bros	306	gas	1150	Brewster N-95	1300	17,000
	34	dsl-elec	3500	M-CSCO U-1220	2500	25,000
Mercury Drlg	5	dsl	1350	Gar-Den 1100	2775	22,000
Moran Bros	36	dsl-elec	2300	Brewster N-12	2000	20,000
	66	dsl	1400	Brewster N-75-A	1000	14,000
Noble Drlg	N-115	dsl	2130	National 110	2130	20,000
	N-117	dsl	3645	National 110-UE	3645	20,000
Parker Drlg	142	dsl	3000	National 1320-E	3000	25,000
	167	dsl	1650	OIME SL-1500	1650	20,000
	181	dsl	3000	OIME Hercules 3000-E	3000	30,000
	182	dsl	3000	OIME Hercules 3000-E	3000	30,000
	201	dsl	3000	OIME E-4000	4000	40,000
	208	gas	2450	Ideco 7-11	2000	18,000
	210	dsl	2700	OIME 1500-6	2050	22,000
	212	dsl	3000	OIME 2000	4000	25,000
	214	gas	2000	OIME 1500-C	2000	22,000
Penrod Drlg	26	dsl	2600	EMSCO C-2	1950	25,000
Rowan Drlg U S	14	dsl	3200	National 1625-M	3000	35,000
	7	dsl	3200	EMSCO A-1500	2500	22,000
	30	dsl	2600	EMSCO A-1500	2400	22,000
Smart Drlg	7	dsl	1200	Unit U-20	1200	16,000
TRG Drlg	10	dsl	3000	Gar-Den 3000-E	3000	30,000
	18	dsl-elec	2200	Gar-Den 1500-E	2400	22,000
Tri-Land Drlg	1	dsl	1500	Gar-Den 1500-E	1500	21,000/5"
Triad Drlg	8	dsl		Gar-Den 1500		24,000
Trigg Drlg Co	2	gas-btne	700	National 75	900	12,000
URC Drlg	4	dsl-elec	1500	M-CSCO 914-C	1500	22,000
	5	dsl	2250	M-CSCO 1220	2250	25,000
BLAINE						
Astro Drlg	16	dsl	920	National 50-A	920	11,000
	19	dsl	912	Wilson Super Giant	912	12,500
Bonray Drlg	3	gas	900	Brewster N-7	900	10,500
Cactus Drlg (TX)	32	dsl	1560	National 100	1740	18,000
FWA Drlg	10	dsl	1000	Wilson Giant	800	10,750
	21	dsl	1000	Wilson Mogul 42	800	9,500
Harper-Turner Drlg	2	dsl	800	National 50	820	10,500
Mercury Drlg	2	dsl	750	EMSCO Unit U-15	940	12,000
Moran Bros	35	dsl-elec	1700	OILWELL 76	1200	15,000
Nicor Drlg	28	dsl	600	Unit U-15	700	11,500
Robinson Bros Drlg	5	dsl	1000	OILWELL 66	900	11,000
	11	dsl	600	Brewster N-45	600	10,000
TRG Drlg	22	dsl	1290	National 80-B	1305	14,500
	3	dsl	995	Unit U-15	1305	10,500
Unit Drlg & Expl	24	dsl	400	8006-D	960	14,000
Viersen & Cochran Drlg	20	dsl	1245	National 610	1245	13,000
OKLAHOMA (Cont'd)						
BRYAN						
Pilgrim Drlg	1	dsl	750	Ideco H-35	600	8,000
Schlensker Drlg	4	gas	700	Unit U-15	800	10,000
CADDO						
Big Chief Drlg	40	dsl-elec	3000	EMSCO Electro-hoist III	4200	25,000
	44	dsl	2400	Brewster N-95	2400	20,000
Bonray Drlg	32	dsl	1600	National 110	1600	20,000
Centennial Expl & Drlg	RT-1800	dsl	400			2,500
Dual Drlg	15	dsl	2600	Wilson 150-A	1650	19,000
	20	dsl	2800	OILWELL 860	1400	22,000
FWA Drlg	19	dsl	1200	Wilson Titan	1050	13,500
	5	dsl	1000	Wilson Giant	800	11,000
Harper-Turner Drlg	11	dsl	2000	National 110	1500	20,000
ITT Eason Oil	21	dsl-elec	2000	EMSCO D-2	750	13,000
	22	dsl	2600	EMSCO C-1-E	1500	21,000
	23	dsl	3200	EMSCO C-1-E	3000	30,000
	24	dsl	2600	EMSCO C-1-E	1500	21,000
Mercury Drlg	1	dsl	1000	EMSCO 800	1470	16,000
	10	dsl	1000	Gar-Den 800	2000	18,000
Moran E W Drlg	27	dsl-elec	3200	Gar-Den 1500-E	2000	25,000
Nicor Drlg	1	dsl	1200	M-CSCO U-20	1500	15,000
	10	dsl	2000	M-CSCO U-914-C	1400	18,000
	11	dsl	2100	M-CSCO U-1220-B	2000	21,000
	33	dsl-elec	2000	M-CSCO U-914-EC	1400	18,000
	34	dsl-elec	2000	M-CSCO U-914-EC	1400	18,000
	35	dsl-elec	2000	M-CSCO U-914-EC	1400	18,000
	4	dsl	1500	Gar-Den 800	1000	15,000
	6	dsl	1500	National 55	700	13,500
	65	dsl-elec	2700	M-CSCO U-914-EC	1400	18,000
	9	dsl	2000	OIME 1500-SL	1500	18,000
	30	dsl	2000	M-CSCO U-914-C	1400	18,000
Parker Drlg	172	dsl	1650	OIME SL-1500-P	1650	20,000
	204	dsl	2700	OIME E-1500-C	2250	22,000
Schlensker Drlg	10	gas	900	Gar-Den 800-M	1350	16,000
Top Drlg	2	dsl	1200	OILWELL 660	1200	14,000
Tri-Service Drlg	9	dsl	2475	National 1320-M	2475	22,000
Unit Drlg & Expl	20	dsl	1000	Gar-Den	1300	15,000
	27	dsl-elec	1600	Gar-Den 1500-E	2000	25,000
Viersen & Cochran Drlg	1	dsl	800	OILWELL 660	800	12,000
	16	dsl	3200	National 1320-UE	3417	25,000
	19	dsl	800	National 610	830	12,000
	3	dsl	800	National 75-CA	800	14,000
Westburne Drlg	67	dsl	1725	OILWELL 96	1725	20,000
	68	dsl	1800	Unit U-1220	1950	20,000
CANADIAN						
Basin Drlg	6	dsl	650	Brewster N-7	850	9,500
	8	dsl	600	Gar-Den 500	850	12,500
Big Chief Drlg	24	gas	1200	M-CSCO U-15	900	11,000
	41	gas	1400	Brewster N-75	900	12,000
Bonray Drlg	22	dsl	800	Ideco H-525	800	9,500
	4	gas	900	Unit U-40	900	14,000
Cactus Drlg (TX)	6	dsl	1040	Ideco 7-11	1160	14,000
	32	dsl	1600	National 100	2100	20,000
Drillers	26	dsl	700	EMSCO GB-500	700	10,000
Honeymon Drlg	1	dsl	800	National 50-A	800	12,000
	2	dsl-elec	750	Ideco E-900	750	4,000
Magic Circle Drlg	15	dsl	900	EMSCO U-15	900	12,000
Mercury Drlg	6	dsl	750	EMSCO 500	1470	14,000
Nicor Drlg	12	dsl	800	Gar-Den 700-M	1050	13,000
Rine Drlg	9	dsl	1000	Gar-Den 800	1000	13,500
Robinson Bros Drlg	GBL	dsl	1250	Ideco 1200	1000	12,000
	3	dsl	1000	Wilson 75	900	9,000
Schlensker Drlg	2	gas	700	Bethlehem MC-450	900	12,000
Thomas Drlg	9	dsl	640	Brewster N-46	640	12,000
Unit Drlg & Expl	10	Unit U-15	1000	Bethlehem M-58	1200	14,000
Viersen & Cochran Drlg	12	gas	500	National 50	800	9,000
Warren Interstate Drlg	1	dsl	1000	Cabot/Franks 2042-TDHT	700	10,700
CARTER						
Ardmore Drlg	4	gas	600	Wilson	400	500
Astro Drlg	20	dsl	550	Cabot/Franks 550	456	8,500
Big Chief Drlg	12	gas	1600	National 80-B	1600	14,000
Compadre Drlg & Expl	1	dsl	360	Walker-Neer A-250-40	360	6,000
Nicor Drlg	58	dsl	1100	M-CSCO U-15	700	12,000
Schlensker Drlg	1	gas	700	National 75-CA	1050	14,000
Triple H Drlg	1	dsl	1000	National 50-A	1100	10,500
	2	dsl	1000	Ideco 10,000	1100	14,000
	3	dsl	1500	National 100	1500	15,000
CIMARRON						
Gabbert-Jones	11	dsl	310	National T-20	275	5,000
Service Drlg (OK)	3	dsl	300	Unit R-U34	400	6,500
	3	dsl	320	M-CSCO U-34	450	6,500
CLEVELAND						
Bodard & Hale Drlg	14	dsl	400	Brewster N-4	450	7,000
Drillers	30	dsl-elec	1600	Unit U-15-M	1000	11,000
Johnson-Bates Drlg	5	dsl	1000	M-CSCO U-15	1100	10,000
Magic Circle Drlg	12	dsl	900	National 50-A	900	12,000
Quarles Drlg	4	gas	1000	EMSCO GB-500	500	12,000

OIL FIELD POWER TOOLS

KELLY SPINNER®
MODEL A-6C

Makes Connections Faster and Safer
Saves Up To 60% In Connection Time



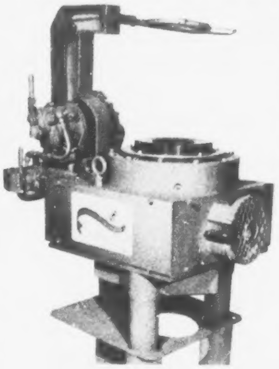
A-6C-2 Dual Motor Right or Left Rotation

OPERATED BY AIR MOTORS

U.S. Patents
No. 3,144,085 and No. 3,212,578

The Model A-6C International Tool Company KELLY SPINNER® is designed specifically to save time and money and to increase safety when making connections on drilling rigs. *It can save up to 60% connection time.* The tool eliminates the spinning chain on connections. It is endorsed by both operators and crews.

INTERNATIONAL
MOUSE HOLE BACK-UP® TOOL



Speeds up connection time when adding pipe to drilling string • Is fully automatic • Provides maximum safety for rig floor personnel • Eliminates need for back-up tongs • Easy to operate and maintain

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Circle 309 on Reader Service Card

OKLAHOMA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
CLEVELAND (Contd)						
Scott Jerry Drlg	6	dsl	1342	EMSCO Unit MU-15	1342	10,500
Trigg Drlg	4	dsl	700	National 75	950	12,000
	5	gas-btne	500	National 50-A	800	10,000
COMANCHE						
Amoy Drlg & Well Serv	40	dsl	2300	National 1320	2300	12,000
Loffland Bros	200	dsl-elec	3200	CE 3000 Type 2	3000	38,000
Moran E W Drlg	22	dsl-elec	3200	EMSCO C-3	3000	30,000
Nicor Drlg	29	dsl-elec	2700	Gar-Den E-1500	2000	25,000/5"
	3	dsl	1000	M-CSCO U-15	700	11,500
Parker Drlg	114	dsl-elec	2700	Ideco 3000-E	2700	30,000
	186	dsl	2000	OIME 1500	2000	22,000
	193	dsl	4000	OIME 3000-E	4000	30,000
	196	dsl	2000	OIME E-3000	4000	30,000
	203	dsl	2700	OIME E-2000	3000	25,000
	205	dsl	2700	OIME 1500-C	2250	22,000
Ratliff Drlg	1	dsl	2640	OILWELL 96	2640	24,000
Resource Drlg	RD-22	dsl	3105	National 1320	3740	25,000
Robinson Bros Drlg	Gary Jack	dsl-elec	2000	Gar-Den	2000	18,000
CREEK						
McLennan Drlg	4	dsl	318	Gar-Den	238	2,000/3½"
Whitehead E E Drlg Contr	1	dsl	450	Wilson Model 30	425	4,000
CUSTER						
Baski Drlg	7	dsl	450	Ideco H-30-D	350	5,000
Bonray Drlg	1	dsl	1230	EMSCO J-1000	1230	16,000
	20	dsl	1680	Ideco Super 711	1680	17,000
	21	dsl	990	Ideco H-750	660	12,000
	30	dsl	2400	National 1320	2400	25,000
	31	dsl	2400	National 1320	2400	25,000
Cliffs Drlg	38	dsl	1400	OILWELL 840-E	800	16,000
Eagle Drlg Inc	3	dsl	1100	BDW-800	1500	14,000
FWA Drlg	7	dsl	1200	Wilson Titan	900	13,500
Harper-Turner Drlg	1	dsl	800	National 55	1000	12,000
	10	dsl	2000	National 80-B	1500	16,000
Honeymon Drlg	14	dsl	700	BDW-800	1000	14,000
ITT Eason Oil	12	dsl	2000	National 80-B	1200	16,000
	20	dsl-elec	2000	EMSCO D-3	1000	16,000
Loffland Bros	324	dsl	2250	Gar-Den 1500	2500	24,000
Moran E W Drlg	11	dsl	2600	Wilson 150-A	1500	20,000
	4	dsl	1300	Wilson 120	1000	15,000
Noble Drlg	N-114	dsl	2090	National 110	2090	18,000
Parker Drlg	170	dsl	1650	OIME SL-1500-P	1650	20,000
Quarles Drlg	3	dsl	2000	OIME 1000	1000	18,000
	9	dsl	2000	OIME SD-7E	1000	22,000
Ratliff Drlg	30	dsl	1650	Texas Flange	1650	18,000
Resource Drlg	1	dsl	3105	National 1320	3740	25,000
Rine Drlg	6	gas	700	Brewster N-75	750	12,000
	7	dsl	750	Gar-Den 700	750	13,500
Robinson Bros Drlg	4	dsl	1000	National 50	800	11,000
Search Drlg	3	dsl	956	Ideco H-725-C	950	10,000
TRG Drlg	1	dsl	1245	National 75	1305	13,500
	130	dsl	2200	Gar-Den 1100-E	2400	18,000
	2	dsl	825	Unit U-15	870	10,000
	20		2200	Gar-Den 1100-E	2400	18,000
Top Drlg	1	dsl	650	Brewster N-7	650	10,000
Triad Drlg	5	dsl		Ideco Super 750	1100	14,000
Unit Drlg & Expl	25	dsl	400	Gar-Den 700 G-D	960	14,000
	26	dsl	400	National 75	800	14,000
Viersen & Cochran Drlg	5	dsl	600	OILWELL 660	800	12,000
Wilson Bros Drlg	14	dsl	2600	National 110	2700	20,000
DEWEY						
Cactus Drlg Corp	6	dsl	1070	Ideco 7-11	1400	14,000
Hickman Drlg	5	dsl	1450	BDW 800	1100	14,000
Lofflend Bros	73	dsl-elec	2160	M-CSCO U-712-A	2200	18,000
Moran Bros	33	dsl-elec	2600	National 110	2000	20,000
Nicor Drlg	2	dsl	1300	M-CSCO U-15	700	12,000
Noble Drlg	N-83	dsl	1530	National 80-B	1530	15,000
	N-85	dsl	1830	National 80-B	1830	15,000
Project 5 Drlg	10	dsl-elec		S-L-5	1155	12,000
	12	dsl-elec		J-1250	1800	14,000
Rine Drlg	4	gas	750	Brewster N-75	750	12,000
Robinson Bros Drlg	10	dsl	600	Brewster N-45	600	19,000
Smart Drlg	3	dsl	500	M-CSCO Unit U-15-A	1000	13,000
	5	dsl	600	National 50-CA	950	11,000
Top Drlg	5	dsl	1000	M-CSCO U-15	1000	104/½"
Trend Drlg	3	dsl	1000	National 75	1200	12
Triad Drlg	3	dsl		Brewster N-55	800	12,000
	4	dsl		Brewster N-7	800	11,000
Viersen & Cochran Drlg	2	dsl	600	National 55	800	12,000

OKLAHOMA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
ELLIS						
Baker & Taylor Drlg	8	dsl	870	M-CSCO U-15	870	11,000
Cactus Drlg (TX)	33	dsl	1560	National 100	1740	16,000
Hickman Drlg	6	dsl	1450	BDW-800	1100	14,000
Moran E W Drlg	13	dsl	1400	Gar-Den 700	1000	12,500
	2	dsl	1500	Gar-Den 700	1000	13,500
Pulliam Drlg	11	dsl	2400	National 80-B	1600	15,000
	12	dsl	1600	National 50-A	1200	11,000
Quarles Drlg	7	dsl	1050	National 75-CA	800	14,000
Ratliff Drlg	7	gas-btne	1020	National 75-CB	1020	15,000
Sage Drlg	4	dsl	800	M-CSCO U-15	800	9,500
Search Drlg	2	dsl	950	Ideco H-725-C	950	10,000
Triad Drlg	6	dsl		Brewster N-95-A	1650	20,000
Unit Drlg & Expl	9	dsl	600	Brewster N-55	1050	10,000
Viersen & Cochran Drlg	17	dsl	600	OILWELL 660	830	12,000
GARFIELD						
Basin Drlg	10	dsl	600	M-CSCO U-15	850	10,000
	3	dsl	650	M-CSCO U-15	850	9,500
Cyclone Drlg & Workover	12	dsl	800	Unit U-34		600
FWA Drlg	6	dsl	1000	Wilson Giant	800	9,500
Hughes Drlg	1	dsl	500	Ideco H-35	450	8,000
Iron Drlg	1	dsl	500	Unit U-35-A	450	7,000
	3	dsl	1050	Bethlehem S-45-E	600	8,000
Logan Drlg	5	dsl	1350	Superior 700-M	900	10,000
Ratliff Drlg	11	dsl	850	Brewster N-7	850	10,000
Sabre Drlg Div TRG Drlg	8	dsl	1050	M-CSCO U-15	1050	9,000
Unit Drlg & Expl	22	gas	350	National 50	500	10,000
GARVIN						
Ardmore Drlg	1	dsl	450	Ideco H-30-D	450	5,000
	2	gas	700	Wilson Giant	700	9,000
Big Chief Drlg	20	gas	1200	M-CSCO U-40	960	13,500
Bodard & Hale Drlg	10	dsl	450	OILWELL 52-T	600	9,000
	7	dsl	400	Bethlehem S-55	600	8,000
	9	dsl	550	Bethlehem S-55	700	9,000
Bonray Drlg	5	gas	700	National 5 -A	700	9,000
Johnson Bates Drlg	4	dsl	400	M-CSCO U-34	375	6,500
Moran E W Drlg	20	dsl	850	Spencer 7000	550	8,000
	24	dsl	850	Spencer 7000	550	8,000
	26	dsl	850	CEI-6000	600	9,000
Ratliff Drlg	16	dsl	750	Unit U-15	750	10,000
	2	gas	1020	National 55	1020	14,000
	5	dsl	1100	National 75-CS	1100	15,000
Scott Jerry Drlg	4	dsl	600	Bethlehem C-50	640	10,000
Tierra Drlg	15		1000	M-CSCO U-712-EA	1200	16,000
GRADY						
Arden Drlg	3	dsl	2500	EMSCO C-1	1500	20,000
	4	dsl	1800	EMSCO D-2	1000	16,000
	5	dsl-elec	2400	EMSCO D-3	2000	18,000
Arrowhead Drlg	C-3	dsl	1040	National 610	1040	12,000
Big Chief Drlg	22	gas	1600	National 80-B	1600	14,000
	35	gas	2610	National 110	2610	20,000
Chiles Drlg	7	dsl	1600	National 0-610	1000	12,000
Cliffs Drlg	43	dsl	1300	National 1320-UE	1300	25,000
Dual Drlg	26		18000	Wilson 150-A	1650	16,000
Helmerich & Payne Intl Drlg	8	dsl	950	National 55	950	15,000
	84	scr	1100	OILWELL 760-E	850	
Honeymon Drlg	4	dsl	1500	OIME S/L 1500	1500	18,000
	6	dsl	1000	OIME S/L 7	1500	16,000
ITT Eason Oil	17	dsl	2600	EMSCO C-1	2000	21,000
	18	dsl-elec	2300	EMSCO C-1E	1500	21,000
	19	dsl	1800	EMSCO D-2	750	13,000
Johnson Bates Drlg	6	dsl	1560	M-CSCO U-20	1040	16,000
	7	dsl	1000	Wilson Titan	1350	12,000
Loffland Bros	111	dsl-elec	3300	EMSCO A-1500	2200	24,000
	206	gas-elec	2160	M-CSCO U-914-B	2200	20,000
	99	gas	1300	M-CSCO U-20	1645	15,000
Mercury Drlg	12	dsl	2010	Gar-Den 800	2010	20,000
	7	dsl	1000	Gar-Den 800-M	2000	18,000
	8	dsl	1000	Gar-Den M-700	1470	18,000
Nicor Drlg	15	dsl	1000	OILWELL 76	2100	15,000
Parker Drlg	179	dsl	3000	OIME Hercules 3000-E	3000	30,000
Pilgrim Drlg	2	dsl	1500	OILWELL 76	1500	16,000
Quarles Drlg	10	dsl	2600	M-CSCO U-914-C	2400	22,000
Ratliff Drlg	14	dsl	2640	M-CSCO U-1220-B	2640	28,000
Sandia Drlg	1	dsl	3000	Gar-Den E-800	3000	18,000
	5	dsl	2000	EMSCO D-2	2000	16,000
Smart Drlg	10	dsl	1000	M-CSCO U-20	1500	18,000
	2	dsl-elec	677	M-CSCO Unit 36	1000	14,000
	9	dsl	1000	M-CSCO U-15	950	13,000
TRG Drlg	14	dsl-elec	2000	Gar-Den 1100-E	2400	18,000
Unit Drlg & Expl	8	dsl	700	National 55	1588	14,000
Viersen & Cochran Drlg	10	dsl	2000	National 100	1040	17,000
	15	dsl	1010	OILWELL 660	830	13,000
Wilson Bros Drlg	15	dsl	2600	National 110	2700	20,000
GRANT						
Trend Drlg	2	dsl	500	Ideco H-35	500	7,500
HARPER						
Drillers	23	dsl	600	Unit U-15	600	10,000
	36	dsl	600	EMSCO GB-500	700	9,500
Nicor Drlg	14	dsl	625	Gar-Den 500-M	650	10,000
HARPER (Contd)						
Pulliam Drlg	18	dsl	900	EMSCO GA-250-T	350	8,000
Rine Drlg	10	dsl	550	Brewster		9,500
	3	dsl	750	Brewster N-55	750	9,500
Sage Drlg	5	dsl	400	National T-32	400	6,700
Triad Drlg	1	dsl		National T-32	350	8,000
Unit Drlg & Expl	1	dsl	500	Unit U-15	800	10,000
HASKELL						
Astro Drlg	22	dsl	920	Bethlehem M-58	920	12,000
Dual Drlg	2	dsl	950	Wilson Giant	650	9,500
Miller Drlg	102	gas	675	M-CSCO U-15	675	12,000
	116	gas	300	Spencer 7000	380	7,500
Moran E W Drlg	16	dsl	750	Spencer 7000	500	8,000
Unit Drlg & Expl	17	dsl	700	Gar-Den 700	1300	14,000
HUGHES						
Rockwell Drlg	20	dsl	670	Mac-350	550	6,500
	22	dsl	670	EMSCO G-36	450	7,000
KAY						
Hughes Drlg	15	dsl	500	Cabot/Franks 550	450	7,500
	6	dsl	500	Ideco H-35	300	6,200
McLennan Drlg	5	dsl	450	Cabot/Franks 658	318	4,000
KINGFISHER						
A & P Drlg	1	gas	775	EMSCO 450	225	9,000
	2	gas	825	EMSCO 500	275	9,000
Astro Drlg	17	dsl	800	Cabot/Franks 750	700	11,000
BF & B Drlg	1	dsl	600	Unit U-15	600	10,000
	3	gas	800	National 50	800	10,000
Basin Drlg	1	dsl	650	EMSCO GB-500	850	9,500
	14	dsl	650	Brewster N-45	850	8,500
	2	dsl	650	National 50-A	850	9,500
	5	dsl	600	National CA-75	850	11,000
	9	dsl	600	M-CSCO U-15	850	10,000
Big Chief Drlg	36	gas	1400	National 55	900	11,000
Bodard & Hale Drlg	5	dsl	400	M-CSCO U-34	400	6,500
Cactus Drlg (TX)	56	dsl	800	Brewster N-55	1000	9,000
Cactus Drlg Corp	33	dsl	1050	National 100	1650	16,000
Falcon Drlg	1	dsl	400	Bethlehem S-45-A	400	7,000
Hughes Drlg	4	dsl	550	Ideco H-44	600	9,000
Logan Drlg	4	dsl	1200	BDW 650	900	10,000
Magic Circle Drlg	11	dsl	900	National 50-A	900	10,000
Nicor Drlg	7	dsl	1020	M-CSCO U-15	700	11,500
Ratliff Drlg	12	dsl	700	Gar-Den 500-M	700	12,000
Thomas Drlg	4	dsl	500	EMSCO 500	500	10,000
Top Drlg	4	dsl	1200	OILWELL 660	1200	14,000
Trend Drlg	1	dsl	500	M-CSCO U-15-A	700	10
	6	dsl	1100	Ideco 725	1100	12,000
	8	dsl	1100	Ideco 7525	1100	10,500
Unit Drlg & Expl	23	dsl	350	21-15	600	10,000
Viersen & Cochran Drlg	4	dsl	600	National 55	800	12,000
KIOWA						
Moran E W Drlg	30	dsl-elec	2600	Gar-Den 1500-E	2000	25,000
LATIMER						
Cactus Drlg (TX)	51	dsl	800	Brewster N-55	1000	9,000
Miller Drlg	106	gas	900	National 75	900	13,500
	110	dsl	1500	OIME SL-1500	1500	20,000
LE FLORE						
Dual Drlg	18	dsl	1850	Bethlehem M-810	1100	15,000
LINCOLN						
Cyclone Drlg & Workover	9	dsl	800	Unit U-34	400	6,000
Project 5 Drlg	9	dsl		Cardwell J-4	850	10,000
LOGAN						
Harper-Turner Drlg	12	dsl	600	Cooper	700	9,000
Fisher Drlg Corp	1	dsl	450	Brewster N-4	450	6,500
Hughes Drlg	10	dsl	500	Cabot/Franks 550	450	7,500
	7	dsl	500	Ideco H-37	450	8,000
Johnson Bates Drlg	1	gas	350	M-CSCO U-34	300	5,700
	2	gas	325	M-CSCO U-34	245	6,500
Porter Gene Drlg	1	dsl	600	M-CSCO U-34	435	6,000
Project 5 Drlg	3	dsl		Unit U-34	450	6,500
	5	dsl		American 250-BDW	450	6,500
Sabre Drlg Div TRG Drlg	6	dsl	450	National T-20	335	6,000
	7	dsl	600	M-CSCO U-15	450	7,500
	9	dsl	450	M-CSCO U-34	450	6,000
Sloan Drlg	18	dsl	450	Wilson 42	450	7,000
Sumpter & Barker Drlg	1	dsl	930	Wilson Mogul 42 Trailer Mounted	430	6,500
LOVE						
Astro Drlg	24	dsl	825	Brewster N-55	825	12,500
Big Chief Drlg	42	dsl	1800	National 80	1800	15,000
Burns L D Drlg	1	dsl	1020	Sea Coast 1000-4S	744	12,000
	2	dsl	830	Wilson 75	600	10,500
	3	dsl	669	Wilson 75	600	10,500
Honeymon Drlg Co	3	dsl	1100	OIME S/L 1000	1100	14,000
Moran E W Drlg	12	dsl	950	Bethlehem S-60	700	10,000
	8	dsl	1600	Wilson 150	1000	15,000
Ratliff Drlg	9	gas	700	National 50-A	1020	11,000
Schlensker Drlg	9	dsl	1500	OIME 1500-SL	2205	18,000
TRG Drlg	15	dsl	1000	Wilson Super Atlas	1305	14,000
Westburne Drlg	70	dsl	950	National 50-A	700	9,500

OKLAHOMA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Avail-able to Drwwks	Rated Depth with 4½" Pipe
MC CLAIN						
Astro Drlg	15	dsl	912	Super Wilson GI	912	10,500
Big Chief Drlg	11	gas	1350	Brewster N-75	1350	13,000
	43	dsl	2000	National 80-B	2250	16,000
Bodard & Hale Drlg	8	dsl	1100	National 50	1100	10,500
Moran E W Drlg	1	dsl	900	Gar-Den 700	800	12,500
Nicor Drlg	19	dsl	1650	Ideco 750	750	15,000
Project 5 Drlg	8	dsl		EMSCO GB-42	850	10,000
Smart Drlg	6	dsl	700	National 50	950	11,000
	8	dsl	950	Brewster N-55	700	12,000
MC INTOSH						
RWIT Drlg	2	gas-LPG	345	M-CSCO U-34	280	6,000
MAJOR						
Big Chief Drlg	9	dsl	1200	Ideco H-35-S	700	10,000
Harper-Turner Drlg	4	dsl	600	National 50	820	9,000
Hughes Drlg	2	dsl	500	Ideco H-35	450	8,000
	3	dsl	550	EMSCO GB-350	600	10,500
Iron Drlg	2	dsl	900	Unit U-15	600	9,000
Magic Circle Drlg	14	dsl	320	Cabot/Franks 2042	700	9,500
Nicor Drlg	18	dsl	1050	Unit U-15	700	12,500
Ratliff Drlg	10	gas	1020	National 50	1020	10,000
Rine Drlg	5	dsl	700	Brewster N-55	700	9,000
Robinson Bros Drlg	2	dsl	600	OILWELL 66	1000	11,500
Top Drlg	3	dsl	400	OILWELL 500	450	8,500
	6	dsl	350	National T-32	350	7,500
Trend Drlg	5	dsl	900	M-CSCO Unit U-15-CA	900	11
	7	dsl	550	Ideco H-44	608	8,500
URC Drlg	1	dsl	860	National 50	860	10,000
	3	dsl	860	EMSCO 500	860	10,500
Warrior Drlg Co	1	dsl		EMSCO	400	5,000
MARSHALL						
Moran E W Drlg	17	dsl	2600	Wilson 250	1500	20,000
Nicor Drlg	8	dsl	755	National 50-CA	425	11,000
Schlensker Drlg	8	dsl	635	Wilson Mogul 42	475	7,000
Sloan Drlg	16	dsl	400	Wilson 42	600	7,000
Vi-Roi Drlg	1	dsl	435	Wilson Mogul 42	435	6,500
MURRAY						
TRG Drlg	16	dsl-elec	1500	Gar-Den 1100-E	1800	15,000
NOBLE						
Bonray Drlg	7	dsl	476	Cooper 66	318	6,000
Fisher Drlg Corp	4	dsl	450	Wilson Super 38	450	6,000
Hughes Drlg	9	dsl	500	Cabot/Franks 550	400	7,500
Kay Drlg	1	dsl	480	Brewster N-4	480	6,000
	2	dsl	500	Cooper LTD-550	500	8,500
Quanza Drlg	1	dsl	300	National 300-B	300	5,500
NOWATA						
Northeast Drlg	1	dsl	400	Ideco BIR-3084	300	6,200
Winter Drlg & Expl	1	dsl	900	Jaswell J-2400	900	2,400
OKFUSKEE						
Earnest	1	dsl	6500	Cabot/Franks 500	400	6,500
	3	dsl	6500	Cabot/Franks	400	6,500
OKLAHOMA						
Bodard & Hale Drlg	12	dsl	450	Mac-400	525	7,500
	15	dsl	450	Mac-400	525	7,500
	6	dsl	550	National T-20	450	6,500
Cactus Drlg (TX)	57	dsl	520	Ideco H-35	450	6,500
ITT Eason Oil	25	dsl	2600	EMSCO C-1-E	1500	21,000
	26	dsl	3200	EMSCO C-3-E	3000	30,000
Santa Fe Drlg	SFW-17	dsl-elec	1300	National 100	2000	14,000
OKMULGEE						
Earnest	2	dsl	335	Cabot/Franks	318	5,500
OSAGE						
Equity Drlg	150	dsl	300	Failing 2500	300	3,000/3½"
Layton Oil	2	dsl	180	Failing 1500	100	1,500/2⅞"
McLennan Drlg	3	dsl	450	Cabot/Franks Model 137	318	4,500
PAWNEE						
Petra Drlg	24	dsl	300	Cardwell K-510	300	5,000
Quanza Drlg	2	dsl	200	Brewster N-4	300	4,500
PAYNE						
Bodard & Hale Drlg	4	dsl	400	M-CSCO U-34	400	6,500
Equity Drlg	175	dsl	300	Wilson Super 38	300	4,200
Hughes Drlg	5	dsl	500	Ideco H-35	300	6,200
Mar-Tay Drlg	1	dsl	450	Cardwell K-200-C	350	5,000
Venture Drlg	2	dsl	400	Cabot/Franks 750	700	6,500
PITTSBURG						
Arden Drlg	2	dsl	800	EMSCO WS-1	800	12,000
Dual Drlg	10	dsl	1500	Wilson 120	1100	15,000
Lagersen Drlg	4	dsl-elec	2000	EMSCO J-1100-E	2500	18,000
Miller Drlg	14	dsl	600	National 50	600	10,000
RWIT Drlg	8	gas-LPG	345	M-CSCO U-34	280	6,000
	9	gas-LPG	345	Wilson	280	6,000
Sloan Drlg	14	dsl	370	National T-20	500	6,500
PONTOTOC						
Bodard & Hale Drlg	11	dsl	400	Mac-300	450	6,500
Project 5 Drlg	2	dsl		National 50	450	6,500
	7	dsl		Challenger	450	4,000
TEK Drlg	F-1500	gas	350	Failing 1500	350	1,500
PONTOTOC (Contd)						
TEK Drlg	WS	dsl	265	Wilson Super	265	4,500
POTTAWATOMIE						
Bodard & Hale Drlg	16	dsl	550	Ideco H-37	400	6,500
Kingery Drlg	10	gas	300	Wilson Giant	300	5,000
Project 5 Drlg	4	dsl		Brewster N-4	450	5,000
	6	dsl		Cabot/Franks 147-A	450	5,000
Scott Jerry Drlg	1	dsl	350	Brewster N-4	350	5,500
Sloan Drlg	12	dsl	370	Brewster N-4	475	6,500
PUSHMATAHA						
Loffland Bros	227	dsl	2200	M-CSCO U-914-A	2500	22,000
ROGER MILLS						
Baker & Taylor Drlg	11	dsl	1140	EMSCO GCA-500	1140	12,000
	6	dsl	1400	M-CSCO U-40	1400	20,000
Bonray Drlg	2	dsl	1650	OILWELL 860	1650	20,000
Drillers	25	dsl	1000	Brewster N-75	1000	14,000
	29	dsl	1200	Ideco 700-E	1000	14,000
Helmerich & Payne Intl Drlg	78	scr	2000	National 11-0UE	1500	20,000
	89	dsl-elec	1500	National 110-UE	2000	20,000
Honeymon Drlg	11	dsl	1000	Gar-Den 800-M	1000	16,000
	12	dsl	1000	Gar-Den 800-M	1000	16,000
	16	dsl	1100	OILWELL 96	3000	18,000
Loffland Bros	123	gas	1975	National 120	2200	26,000
	311	dsl	2250	Gar-Den 1500	2500	24,000
Mercury Drlg	3	dsl	1000	OILWELL 96	2010	22,000
	4	dsl	750	EMSCO Unit U-15	980	12,000
Moran Bros	31	dsl-elec	2900	Ideco 2500-elec	2500	25,000
	34	dsl	1700	OILWELL 760	1200	15,000
	4	dsl-elec	1400	EMSCO A-800-WE	1000	15,000
	67	dsl	1700	EMSCO DIII	1000	15,000
Moran Drlg	38	dsl-elec	3200	M-CSCO C-2	2000	25,000
Moran E W Drlg	10	dsl	2700	OILWELL 96	2800	25,000
	25	dsl-elec	3200	Gar-Den 3000-E	3000	35,000
	28	dsl-elec	3200	Gar-Den 3000-E	3000	35,000
N & C Drlg	5	dsl	3200	EMSCO C-3 Type II	3000	30,000
Nicor Drlg	31	dsl-elec	2000	M-CSCO U-914-EC	1400	18,000
Noble Drlg	N-87	dsl	1200	National 80-B	1200	15,000
Parker Drlg	192	gas	1400	OIME 1000	1400	16,000
	43	gas	1500	OILWELL 96	1500	20,000
	47	gas	1500	OIME 1500-P	1500	20,000
	54	gas	2000	National 130	2000	25,000
	71	gas	1500	National 125	1500	20,000
Petra Drlg	25	dsl	1700	Ideco H7-11	1000	15,000
Resource Drlg	7	dsl	1560	National 80-B	1835	14,000
Robinson Bros Drlg	12	dsl	800	Gar-Den 700	1000	12,000
Rowan Drlg US	31	dsl	3200	National 1625	3300	30,000
Search Drlg	4	dsl-elec	2700	Gar-Den 1500-E	3000	24,000
Sharp Drlg	39	dsl	2970	OILWELL M-2000	2742	30,000
	40	dsl	2150	OILWELL 96	215	18,000
	52	dsl	1600	Bethlehem M-810	1836	19,000
Smart Drlg	4	dsl	1000	OILWELL 76	1400	16,000
TRG Drlg	11	dsl-elec	2000	Gar-Den 1100-E	2400	18,000
	131	dsl	2200	Gar-Den 1500-E	2400	22,000
	17	dsl-elec	2200	Gar-Den 1500-E	2400	22,000
Tierra Drlg	20	dsl-elec	800	BDW-800	800	14,000
Triad Drlg	7	dsl		Gar-Den 800	1100	15,000
URC Drlg	2	dsl	1100	National 100	1100	15,000
Unit Drlg & Expl	15	dsl	1300	M-CSCO 914-C	1850	20,000
	21	dsl	1000	Gar-Den 700	960	14,000
Wilson Bros Drlg	17	dsl	2600	National 110	2700	20,000
Zenith Drlg	5	dsl	1100	EMSCO M-58	1100	15,000
	9	dsl	1200	Gar-Den 800	1200	17,000
SEMINOLE						
Baulch Drlg	1	dsl	350	Brewster N-4	275	4,800
Rockwell Drlg	18	dsl	670	Unit U-34	450	5,000
	24	dsl	450	Mac-300	450	5,000
Scott Jerry Drlg	2	dsl	420	Unit U-34	430	6,500
	5	dsl	375	Bethlehem S-45	375	6,000
	7	dsl	350	Wilson Giant	350	7,000
Sloan Drlg	10	dsl	370	M-CSCO U-34	475	6,500
STEPHENS						
Ardmore Drlg	3	gas	1350	Ideco M-10000	1350	12,500
Cliffs Drlg	42	dsl	1300	National 1320-UE	1300	25,000
Gay Drlg Contractors	1	gas	80	2500 Series Wichtex	80	2,800
Magic Circle Drlg	16	gas	1300	Bethlehem M-810	1300	16,000
Nicor Drlg	32	dsl-elec	2700	M-CSCO 1220-E	2000	25,000/5"
Ratliff Drlg	8	gas-btne	1020	National 50-A	1020	10,000
Smart Drlg	1	dsl-mech	500	M-CSCO Unit U-15	950	13,000
Thomas Drlg	10	dsl	500	Wilson Super Giant	500	10,500
	11	dsl	300	Wichtex R-6	300	5,500
	6	gas	500	National 50-A	600	10,500
Vi-Roi Drlg	2	dsl	120	Howard-Turner 100	210	2,500
STEVENS						
Loffland Bros	104	dsl-elec	3300	EMSCO 3000	3300	35,000
TEXAS						
Gabbert-Jones	12	dsl	500	M-CSCO U-15	500	6,000
Lohmann-Johnson Drlg	11	dsl	325	National 50	600	6,000
	15	dsl	750	Brewster N-45	185	6,000
Mercury Drlg	11	dsl	750	EMSCO U-15	900	9,000
Service Drlg (OK)	8	dsl	836	Unit R-U34	636	10,000
	9	dsl	800	Unit R-U34	1000	10,000
	8	dsl	500	M-CSCO U-15	800	8,500

OKLAHOMA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
TEXAS (Contd)						
Zenith Drlg	6	dsl	600	EMSCO GB-350	600	8,500
TULSA						
Baker Oil & Drlg	2	dsl	150	Gar-Den 2000	150	2,000
Hemphill Corp	T-4	dsl	115	Ingersol-Rand Hydraulic	750	4,000
WASHITA						
Act Drlg	1	dsl	1750	Gar-Den 6-D 800	1000	16,000
Big Chief Drlg	37	gas	1350	EMSCO J-1250	1350	16,000
Helmerich & Payne Intl Drlg	48	dsl	1820	National 110	1820	22,000
	55	gas	1555	National 55	1100	16,500
	76	dsl	1650	OILWELL 760	1650	16,500
	80	scr	2200	National 110-UE	1500	20,000
	82	scr	2800	OILWELL E-2000	2000	26,000
	85	scr	850	OILWELL 760-E	1100	
Honeymon Drlg	15	dsl	750	BDW-800	1000	14,000
Loffland Bros	102	dsl-elec	3300	M-CSCO U-1220-EBD	3300	30,000
	196	dsl-elec	3300	M-CSCO U-1220	2200	28,000
	218	dsl-elec	3300	M-CSCO U-1220-E	2200	28,000
	222	dsl-elec	3300	M-CSCO U-1220-B	2200	28,000
	244	dsl-elec	2500	M-CSCO U-1220-E	2200	28,000
	32	dsl-elec	4000	EMSCO CE-3000	3300	35,000
	327	dsl	2250	Gar-Den 1500	2500	24,000
	70	dsl-elec	3200	M-CSCO U-1220-EB	2000	28,000
Mercury Drlg	9	dsl	1350	Gar-Den 1500	2800	25,000
Moran E W Drlg	5	dsl	1850	Wilson 120	1100	18,000
	7	dsl	1200	Gar-Den 700	800	12,500
	9	dsl	1900	Ideco 1050-PR	1350	18,000
Murco Drlg	50	scr	2200	OILWELL 860-E	2000	18,000
Noble Drlg	GD-1	dsl	3135	Gar-Den 1500	3135	22,000
	GD-2	dsl	3135	Gar-Den 2100	3135	25,000
	OW-22	dsl-elec	3300	OILWELL E-2000	3300	25,000
Parker Drlg	59	gas	1650	OIME 1500-P	1650	20,000
Project 5 Drlg	11	dsl-elec		S-L-5	1155	12,000
	14	dsl-elec		OILWELL E-2000	2000	25,000
Quarles Drlg	8	dsl	2000	OIME SD-7E	1000	22,000
Ratliff Drlg	17	dsl	700	National 50-A	700	12,000
Rowan Drlg US	5	dsl	3200	National 1625-M	3000	35,000
	9	dsl-elec	2600	National 1625-DE	2000	25,000
Sandia Drlg	3	dsl	3000	EMSCO D-3	3000	18,000
	4	dsl	4000	EMSCO C-1	4000	22,000
Smart Drlg	11	dsl	1000	National 100	1500	18,000
TRG Drlg	12	dsl-elec	1500	Gar-Den 800-E	1800	15,000
	132	dsl	3000	Gar-Den 3000-E	3000	30,000
	19	dsl-elec	2200	Gar-Den 1500-E	2400	22,000
	23	dsl	1400	National 80-B	1305	14,500
Tri-Service Drlg	7	dsl	2475	National 110-M	2475	18,000
Trigg Drlg	3	dsl	1200	National 100	1600	14,000
Unit Drlg & Expl	12	dsl	1350	Gar-Den 1500	2000	25,000
WOODS						
Lohmann-Johnson Drlg	5	dsl	300	National 50	440	4,500
Oliver E L Drlg	3	dsl	340	National T-12	250	5,000/4"
Rine Drlg	8	dsl	700	Brewster N-55	700	8,500
Thomas Drlg	2	dsl	300	National T-32	300	7,500
WOODWARD						
Drillers	1	dsl-hydra	200	Automated H-2000	200	12,000
FWA Drlg	9	dsl	1000	Wilson Giant	800	10,750
Hickman Drlg	2	dsl	1150	BDW-650	800	12,000
	3	dsl	1200	BDW-650	800	12,000
S & T Drlg Northern	1	dsl	1100	National 55	1100	11,500
Sage Drlg	3	dsl	400	Ideco H-40	400	8,500
Trend Drlg	4	dsl	900	M-CSCO Unit U-36-A	900	13,000
Triad Drlg	2	dsl		Brewster N-45	550	9,000
Unit Drlg & Expl	3	dsl	500	National 50-A	960	10,000

OREGON

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
CLATSOP						
Taylor Drlg	4	dsl	750	National 50	750	9,000
	5	prop	350	M-CSCO U-34	225	4,000

PENNSYLVANIA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
International Petr Serv	11	dsl	1000	Wilson 120	1650	18,000
CLEARFIELD						
Faiman Drlg	11	dsl	400	Ideco H-44	500	8,000
	14	dsl	400	Brewster	350	7,500
	6	dsl	350	Ideco H-44	550	8,000
CRAWFORD						
Delta Drlg	67	dsl		Spencer 7000	480	9,000
	77	dsl	250	Ideco H-35-KD	291	6,000
	78	dsl	250	Ideco H-35-KD	291	6,000
	79	dsl	255	Ideco H-35-KD	291	6,000
	92	dsl	255	Ideco H-35-KD	291	6,000

PENNSYLVANIA(Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
ERIE						
International Petr Serv	4	dsl	475	Wilson 42	475	7,500
	5	dsl	475	Wilson 42	475	7,500
Union Drlg	7	dsl		Cabot/Franks 500	425	6,500
FOREST						
Caster Well Drlg	1	dsl		Jaswell	150	2,400
	2	dsl		Jaswell		3,500
INDIANA						
Faiman Drlg	10	dsl	400	Wilson Mogul 42	350	5,000
	5	dsl	400	Cardwell	350	4,000
	9	dsl	400	Ideco H-44	500	8,000
Union Drlg	12	dsl		Cabot/Franks 500	425	6,500
JEFFERSON						
Faiman Drlg	12	dsl	400	Ideco	250	5,000
POTTER						
Faiman Drlg	7	dsl	350	Ideco H-44	550	8,000
RANDOLPH						
Union Drlg	11	dsl		Spencer 5000	350	5,000
WARREN						
International Petr Serv	10	dsl	600	Wilson Mogul 42	475	7,500
	12	dsl	475	Challenger Model 320	360	4,000
	8	dsl	600	Wilson Mogul 42	475	7,500
	9	dsl	475	Challenger Model 320-HD	360	4,500
WASHINGTON						
Faiman Drlg	8	dsl	350	Ideco H-44	550	8,000

SOUTH DAKOTA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
CORSON						
Bomac Drlg	32	dsl	760	Ideco H-40	760	8,500
FALL RIVER						
Western Well Drlg	1	dsl	350	Midway 2000	350	2,500
HARDING						
Cardinal Drlg	11	dsl	864	EMSCO GA-500	864	10,500
Elenburg Expl	3	dsl	420	Walker-Neer CC-2000	230	2,500
Noble Drlg	N-57	dsl	800	National 55	800	12,000

TENNESSEE

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
B-J	1	dsl	525	Ingersoll	525	3,000
	2	dsl	525	Ingersoll	525	3,000
	3	dsl	400	Drill-Tec	400	2,500
CUMBERLAND						
Miller Contract Drlg	17	dsl	400	Spencer	400	3,000
FENTRESS						
Miller Contract Drlg	8	dsl	400	Ingersoll	400	3,000
Norman Drlg	2	dsl	750	Ingersoll	450	2,500
MORGAN						
Miller Contract Drlg	16	dsl	525	Ingersoll	525	3,000
OVERTON						
Miller Contract Drlg	10	dsl	525	Ingersoll	525	3,000
	2	dsl	400	Ingersoll	400	3,000
Norman Drlg	1	dsl	750	Ingersoll	450	2,500
SCOTT						
Miller Contract Drlg	9	dsl	525	Ingersoll	525	3,000

TEXAS

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Adeco Drlg & Engr	18	dsl	700	OIME Helihoist 500-C	1370	23,000
Bawden Peter Drlg	15	dsl	1550	Unit U-40-D	800	12,000
	19	dsl	1200	OILWELL 76	700	12,000
	26	dsl	1450	OILWELL 76	700	12,000
	30	dsl	1850	EMSCO D-3 1000	1000	15,000
	31	dsl	2300	OILWELL 96	1500	205
	7	dsl	1200	National 55	700	11,500
Brahaney Drlg	3	gas	900	National 75-CA	900	12,000
Burns L D Drlg	4	dsl	888	Wilson 75	600	12,000
Burris Drlg	115	dsl	750	Superior 700	500	10,000
	116	dsl	750	Superior 700	500	10,000
Burro Drlg	1	dsl	500	Wilson Mogul 42	500	9,000
C & H Drlg	2	dsl		Brewster N-4	375	6,000
	4	dsl		Ideco H-38-D	350	5,000
	7	dsl		Wichtex	350	5,000
Cherokee Drlg & Serv	6	dsl		BDW 450	670	7,000
	7	dsl	700	BDW 650	900	11,000
Cinco Drlg	7	dsl	960	M-CSCO U-34	425	6,500
Dual Drlg	30	dsl	2000	OILWELL 500	500	7,000
	31	dsl	2000	OILWELL 500	500	7,000
	32	dsl	2800	OILWELL 840	1500	11,000
	33	dsl	840	OILWELL 840	1500	22,000
	34	dsl	2000	EMSCO D-3	1000	16,000
	35	dsl	2000	EMSCO D-3	1000	16,000
	36	dsl	2000	OILWELL 760	1000	16,000

TEXAS (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED (Contd)						
F-W Drlg	10	dsl	1000	Ideco H-1200	1000	16,000
Flournoy Drlg	10		1250	Brewster N-46	820	12,500
FOREX Neptune	46	dsl-elec	3200	Gar-Den 1500-E	2000	21,700
	47	dsl-elec	3200	Gar-Den 1100-E	1500	18,000
	48	dsl-elec	3200	Gar-Den 1100-E	1500	18,000
Gopher Drlg	7	dsl	150	Cabot/Franks	100	4,000
Guthrie McLaren Drlg	3	dsl	680	National 50-CA	600	10,000
Ironwood Drlg	1	dsl	750	EMSCO GC-350	750	9,000
	2	dsl	1000	M-CSCO U-36-A	820	10,500
	3	dsl	700	National 50-CA	820	10,000
J 3 Drlg	1	dsl	1300	Unit U-36-A	950	13,500
	2	dsl	1600	Unit U-36-A	950	13,500
	3	dsl	1600	Unit U-34-B	700	10,000
	4	dsl	1100	Unit U-34-B	700	10,000
	5	dsl	2740	Unit U-914	3000	18,000
Jones Drlg Corp	3	dsl	300	Houston Portable	350	2,000
Landford Drlg	6	dsl	300	Brewster	200	1,500
	9	dsl	300	Brewster	200	2,000
Louise Drlg	1	dsl	2684	Ideco H-40	1006	10,000
Lowe Drlg	2	dsl	475	M-CSCO U-34	475	6,000
	6	dsl	475	M-CSCO U-34	475	6,000
Marlin Drlg	8	dsl-elec	1600	National 80-B	1500	12,000
Marlin West	13	dsl-elec	2000	National 110		14,000
McDonald & Son Drlg	2000	dsl		Failing	300	1,500
Merit Drlg	10	dsl-scr		OILWELL 760-E	1000	15,000
Murphy Peter Drlg	1	dsl	800	Cardwell C-Horse	300	5,500
O'Connor & Young Drlg	104	dsl-elec	1600	National 610-E	750	12,000
	152	dsl-elec	2000		1000	14,000
	153	dsl-elec	2000	Gar-Den 800-E	1000	15,000
	301	dsl-elec	3200	Gar-Den 3000-E	3000	25,000
O'Neal Drlg	14	dsl	15000	National 80-B	1500	15,000
	15	dsl-elec	2000	Gar-Den 800	1500	18,000
Pearl Expl	1	dsl	800	Model 65	400	7,000
Pool Well Serv	100	dsl	300	Wilson Mogul 42 Double Drum	450	5,500
	50	dsl	379	Cabot/Franks 500	500	5,500
Riley Drlg	2	dsl	300	National	300	4,500
	3	dsl	300	M-CSCO U-34	225	4,000
	4	dsl	300	Cabot/Franks	300	4,500
Rio Colorado Drlg	131	dsl	1300	Ideco H-30	500	9,500
	133	dsl	1200	Ideco H-40	500	9,500
	135	dsl	1300	Ideco H-40-SP	500	9,500
	136	dsl	1300	Ideco H-40-SP	500	9,500
	138	dsl	2000	National BR-800	1200	16,000
	139	dsl	1100	National T-45	500	10,000
	140	dsl	1100	National T-45	500	10,000
	141	dsl	1100	National T-45	500	10,000
	142	dsl	1200	National 100	500	10,000
	143	dsl	1100	National T-45	500	10,000
Santa Fe Drlg	SFW-10	dsl-elec	2000	EMSCO Electro-hoist H-11	1800	24,000
	SFW-12	dsl-elec	2300	EMSCO A-1100-E	1800	20,000
	SFW-14	dsl-elec	3200	EMSCO C-3111	3000	30,000
	SFW-15	dsl-elec	1600	EMSCO C-111	20000	30,000
	SFW-16	dsl-elec	1300	EMSCO C-11	2000	25,000
	SFW-2	gas	1700	Bethlehem M-1013	2118	22,000
	SFW-3	dsl-elec	2900	EMSCO A-1500-E	2000	30,000
	SFW-4	dsl-elec	2600	EMSCO C-3111	3000	30,000
	SFW-5	gas	2200	Bethlehem B-1013	2118	22,000
	SFW-6	dsl-elec	2300	EMSCO C-3111	3000	30,000
	SFW-7	dsl-elec	2600	EMSCO C-3111	3000	30,000
	SFW-8	dsl-elec	2600	EMSCO A-1500-E	2000	30,000
Santa Fe Drlg Western	7	dsl-elec	2600	EMSCO C-111	2700	30,000
Shelby Drlg	55	dsl-elec	1700	Gar-Den 1100-E	2000	20,000
Sledge D Drlg	3	gas	650	National 50-A	850	12,500
	4	dsl	600	U-15	800	10,000
Thunderbolt Drlg	53	dsl	1200	Wilson 75	950	11,000
Torreon Drlg	R-3	dsl	300	Ideco H-30	250	6,500
Unit Drlg & Expl	6	dsl	950	Unit U-15	882	11,000
ANDERSON						
Burris Drlg	106	dsl	1000	National 50-CA	1000	10,500
Cape Drlg	2	dsl	1000	Brewster TR-7W	600	8,500
Gibson Drlg	10	dsl	1200	EMSCO D-2	1200	12,000
Globe Drlg	3	dsl	800	M-CSCO U-15	800	12,000
ANDREWS						
Ard Drlg	7	dsl	1200	M-CSCO U-40	1200	14,000
BBL Drlg	1	dsl	500	Wilson Mogul 42	760	8,000
Brown Tom	2	dsl	350	National T-16	380	4,500
	7	dsl	700	National 75-CA	700	13,000
Cliffs Drlg	28	dsl	1300	National 1320	1300	25,000
	40	dsl	1300	National 1320-UE	1300	25,000
Hillin Drlg	8	dsl	500	Wilson 42 Mogul	400	5,000
Kenai Drlg of Texas	11	dsl	400	National T-20	400	6,500
	19	dsl	700	EMSCO GA-500	800	11,000/4"
	19	dsl	825	EMSCO GA-500	800	11,000
Norwood A N	2	dsl	700	Brewster N-4	450	6,000
Rod Ric	10	dsl	670	EMSCO G-500	600	8,500/4"
	3	dsl	670	Brewster N-45-M	600	9,000/4"
	6	dsl	450	Bethlehem S-45-E	450	7,000/4"
	8	dsl	670	Brewster N-45	600	8,000/4"
Sharp Drlg	47	dsl	1200	Bethlehem M-58	988	13,500
Sterling Drlg (TX)	17	dsl	1500	Brewster N-75	1230	14,000
	2	dsl	1500	National 610	1150	13,000
Tahoe Drlg	3	dsl	1600	EMSCO D-2	1200	13,500
ANDREWS (Contd)						
Tri-Service Drlg	5	gas-btne	1800	OILWELL 760	1400	16,000
Willbaos Drlg	8	dsl	800	Unit U-15	800	11,000
ARCHER						
Lin-Mour Drlg	33	gas	550	Wilson Giant	550	9,500
Wes-Mor Drlg	11	dsl		Wilson Roadair		6,000
AUSTIN						
Big 6 Drlg	3	dsl	750	Cabot/Franks	600	11,000
Cactus Drlg Corp	29	dsl	1500	National 80-B	1770	16,000
Drillers	15	dsl	1000	OILWELL 66	800	12,000
Nicklos Drlg	77	dsl-elec	1600	EMSCO C-1-II	1530	16,000
Penrod Drlg	22	dsl	2600	National 1320-N	1950	25,000
Richards-Armstrong	6	dsl	2500	OILWELL 860	2400	18,000
Thunderbolt Drlg	52	dsl	1700	National 55	1845	13,000
BASTROP						
Sterling Drlg (TX)	18	dsl	1250	National 610	1100	13,000
BAYLOR						
Bearden Jack E Drlg	4	dsl	600	Wilson Mogul	400	6,500/4"
BEE						
Atco Drlg Southern	55	dsl	1800	National 80-UE	1800	15,000
BDK Drlg	4	dsl	1095	Brewster N-7	870	11,500
Padre Drlg	4	dsl	500	Brewster H-4210	400	7,500
Robinson Bros Drlg	6	dsl	2200	National	1600	18,000
BORDEN						
Kenai Drlg of Texas	16	dsl	700	EMSCO GA-500	780	11,000/4"
McCutchen J W Drlg	3	dsl	900	Wilson Atlas Roadair	900	10,000
Robinson Drlg of Texas	3	dsl	750	M-CSCO U-15	900	10,000
Willbaos Drlg	2	gas	1150	Wilson Giant	840	10,000
BRAZORIA						
Atco Drlg Southern	52	dsl		M-CSCO		12,000
Big 6 Drlg	2	dsl	800	Cabot/Franks	600	10,000
	8	dsl-elec	1600	National 610	900	12,000
Bilbo Drlg	4	dsl	800	Cabot/Franks 900	900	11,500
Frio Drlg	4	dsl	1100	National N-55	1100	12,000
Nicklos Drlg	23	dsl	1850	National 110	1755	18,000
Richards Drlg	2	dsl	1500	Brewster N-75	1200	12,500
Welsh Drlg & Serv	11	dsl	1750	OILWELL 76	1605	12,500
	14	gas	1750	National 110-M	2550	16,000
BRAZOS						
Blocker Drlg	15	dsl	845	Cabot/Franks Series 900	950	10,000
	2	dsl	815	Cabot/Franks Series 750	650	7,500
	4	dsl	1200	National 55	1530	12,000
Butler Drlg	6	dsl	1100	Gar-Den 500	600	10,500
Culver Drlg	15	dsl-elec	1000	National 110	2000	16,000
Matagorda Drlg	14	dsl	2600	National 110	2000	18,000
Matagorda Marine Drlg	10	dsl	1600	EMSCO D-2	1000	12,000
Merit Drlg	9	dsl-scr	1200	OILWELL 660-E	700	11,000
BROOKS						
Atco Drlg Southern	57	dsl	1200	National 610-UE	1800	12,000
Blocker Drlg	9	dsl	1250	Ideco Hydrair H-1000	950	10,500
Delta Drlg	95	dsl-elec	2900	EMSCO C-1	3456	20,000
Dixilyn-Field Drlg	8	dsl	1950	National 110	1638	16,000
Flournoy Drlg	2	dsl	800	EMSCO C-50	480	9,000/4"
	7	dsl	1775	OILWELL 76	1176	13,500
PRC Drlg	2	dsl	880	Unit 34	460	7,500/4"
Southland Drlg	8	dsl	700	EMSCO GB-350	700	8,000
Willis Drlg	1	dsl	1000	Bethlehem B-Line MC-450	1000	12,000
	5	dsl	800	M-CSCO U-15	800	10,000
BURLESON						
Atco Drlg Southern	21	dsl	1080	Gar-Den 500	580	9,500
BDK Drlg	6	dsl	1000	Brewster 4610	950	10,000
Bilbo Drlg	3	dsl	900	Cardwell KB-250	600	10,000
Blocker Drlg	3	dsl	1475	Cabot/Franks Expl Rocket III	950	12,000
	5	dsl	1300	Cabot/Franks Expl Rocket 900	950	10,000
	7	dsl	950	Cabot/Franks Series 900	600	10,500
Brown Tom	26	dsl	700	Gar-Den 500	700	12,000
Cinco Drlg	6	dsl	1015	M-CSCO U-15	780	11,000
Crawford Drlg	7	dsl	600	M-CSCO U-15	800	10,000
DB Drlg	12	dsl	2000	National 100	1500	13,000
	7	dsl	1380	National 50-A	980	10,000
Dual Drlg	1	dsl	1500	Wilson 75-P	900	12,500
	14	dsl	2100	Wilson Giant	900	12,000
	8	dsl	1500	Wilson 75	750	9,500
F-W Drlg	14	dsl	800	Ideco	750	11,000
	8	dsl	800	Brewster N-42	750	11,000
	9	dsl	800	Ideco H-725	750	11,000
France Drlg	1	dsl	1600	Gar-Den 700	900	13,000
Frio Drlg	1	dsl	800	EMSCO 350	550	9,500
Hondo Drlg	8	dsl	1100	Brewster N-55	800	11,000
Loffland Bros	77	dsl	1450	National 100	1575	17,000
MGF Drlg-Houston	6	dsl	750	National T-32	750	8,500
	7	dsl	850	Brewster N-55	850	11,000
	8	dsl	800	Unit U-15	800	10,000
MGF Drlg-Midland	6	dsl	750	National T-32	750	9,000

TEXAS (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
BURLESON (Contd)						
MGF Drlg-Midland	7	dsl	850	Brewster N-55	850	12,000
New & Hughes Drlg	6	dsl	450	Bethlehem C-50	600	11,000
Pernie Bailey Drlg	21	dsl	500	EMSCO J-750	800	11,000
Rainbow Drlg	3	dsl	1600	Cabot/Franks 900	900	11,000
	4	dsl	1600	Cabot/Franks 1200	1200	14,000
Southland Drlg	7	dsl	650	Brewster N-55	600	10,000
Sterling Drlg (TX)	10	dsl	1400	Brewster N-75	1100	13,000
	12	dsl	1500	National 610	1100	13,000
	19	dsl	1110	Brewster N-46	770	11,000
	7	dsl	850	National 50-A	900	12,000
Texland Drlg	5	dsl	1290	Unit U-15	950	10,000
CALDWELL						
Economy Drlg	2	dsl	700	Bethlehem	800	8,000
McConnell Drlg	1	dsl	300	National T-12	200	3,000
Nixon Drlg	1	dsl	3306	Cardwell Cat-D	3306	4,000
	2	dsl	3306	Cardwell	3306	4,000
CALHOUN						
Frio Drlg	3	dsl	900	Brewster N-55	900	10,500
Resource Drlg	17	dsl	1560	National 80-B	1835	14,000
CALLAHAN						
Tierra Drlg	1	dsl	650	Bethlehem S-45	650	7,000
CAMERON						
Willis Drlg	3	dsl	1000	Brewster N-75	1000	12,000
CAMP						
Burris Drlg	105	dsl	750	M-CSCO 36-A	1000	13,500
CASS						
Butler-Johnson	6	dsl	2000	Brewster N-85	1900	15,000
Justiss Oil	25	dsl	250	EMSCO GC-350	450	12,000
Noble Drlg	N-58	dsl	800	National 55	800	12,000
CHAMBERS						
Matagorda Marine Drlg	12	dsl	2000	National 80-B	1500	15,000
Resource Drlg	RD-21	dsl	2330	National 110	2740	18,000
CHEROKEE						
Burris Drlg	110	dsl	1200	Gar-Den 700	750	14,000
Delta Drlg	64	dsl	1200	EMSCO D-2	784	10,500
Gibson Drlg	11	dsl	1200	EMSCO D-2	1200	12,000
H & S Drlg	2	dsl	1700	Brewster N-95	2145	14,000
Hinton W B Drlg	6	dsl	1600	National 8-B	1650	15,000
Rotary Drlg	2	dsl	850	Spencer 7000	700	10,600
	4	dsl	850	Spencer 7000	700	10,600/4"
Schlensker Drlg	20	dsl	1270	National 75-CA	1270	14,000
	6	gas	700	Unit U-15	800	10,000
CHILDRESS						
Bearden Jack E Drlg	2	dsl	1500	Wilson Giant Roadair	700	9,000
CLAY						
Lin-Mour Drlg	21	btne-gas	650	Unit 15	650	7,500
MND Drlg	54	dsl	600	M-CSCO U-15	600	9,000
	61	dsl	600	M-CSCO U-15	600	9,000
Min-Tex Drlg	31	dsl	500	Hyster Model A	550	10,000
COCHRAN						
Norton Drlg	2	dsl	450	Wilson Mogul 42	650	7,000
Sitton Drlg	1	dsl	450	Wilson 600	525	6,500
	2	dsl	650	Wilson 75-P	900	11,500
COKE						
Bandera Drlg	4	dsl	750	BDW 450-T	475	8,500
Cam Drlg	1	dsl	500	Bethlehem S-445-E	650	8,000
FWA Drlg	14	dsl	800	Wilson Mogul	600	7,000
GCO Drlg	8	dsl	1000	National 370	650	8,000
Megargel Drlg	2	dsl	750	Unit Double Jacknife U-15	750	7,000
Mesa Drlg	1	dsl	400	Ideco	400	7,000
COLEMAN						
Bandera Drlg	3	dsl	250	Brewster N-3	300	4,000
F-W Drlg	3	dsl	600	National T-12	450	5,000
Jones Drlg Corp	1	dsl	450	Brewster N-4	450	5,500
Tri-J Drlg	1	dsl	325	Wichtex R-5	250	3,000
COLORADO						
Doss	1	dsl	353	Cooper T-6	425	7,000
O'Connor & Young Drlg	203	dsl	2600	Brewster NE-95	1750	18,000
PRC Drlg	4	dsl	758	Cabot/Franks 900	900	10,000/4"
CONCHO						
Caraway Frank Drlg	3	dsl	750	Bethlehem S-50	375	6,000
COOKE						
Felderhoff Bros Drlg	1	gas	285	Wilson Mogul	185	5,200
	2	dsl	800	Wilson Giant	600	9,000
Guffey-Schlensker Drlg	2	dsl	600	Brewster N-45	700	8,000
COTTLE						
Bearden Jack E Drlg	5	dsl	1200	Wilson 75	750	9,500
CRANE						
Ard Drlg	4	dsl	900	M-CSCO U-15	900	12,000
Brown Tom	1	dsl	350	M-CSCO U-15-CA	500	6,000
	20	dsl	350	Ideco H-400	500	7,000
Hillin Drlg	6	dsl	500	Ideco H-25 Trailer Rig	360	5,000
Johnn Drlg	8	gas	800	Brewster N-75	800	12,500
CRANE (Contd)						
Kenai Drlg of Texas	32	dsl	600	EMSCO GA-500	800	11,000
Loffland Bros	26	dsl-elec	1700	M-CSCO U-36	1200	11,000
Rod Ric	2	dsl	450	Bethlehem S-45-E	450	7,000/4"
CROCKETT						
Brahaney Drlg	8	gas	1400	OILWELL	1400	17,000
Brushy Creek Drlg	8	dsl	250	Scharm 685	500	2,850
DB Drlg	5	dsl	675	Brewster N-4	540	7,000
Delta Drlg	73	dsl	500	Spencer 7000	440	9,000
	86	dsl	500	Spencer 7000	480	9,000
Tucker Drlg	6	dsl	750	Brewster N-75	750	12,000
Wes-Tex Drlg	10	dsl	300	Brewster N-4	500	8,000
	17	dsl	335	Unit U-34	500	8,000
	2	dsl	650	Bethlehem S-45-E	650	10,000
	6	dsl	650	Bethlehem S-60	700	10,000
	9	dsl	700	National 50-A	700	10,000
CROSBY						
Megargel Drlg	4	dsl	350	S-45-B Bethlehem Double Jacknife	275	5,370
CULBERSON						
Cactus Drlg (NM)	54	dsl	502	Bethlehem S-55	454	6,500
Cactus Drlg (TX)	54	dsl	520	Bethlehem S-55	454	6,500
Kenai Drlg of Texas	17	dsl	410	Brewster N-4	450	6,500/4"
	17	dsl	800	Brewster N-4	580	7,000
	20	dsl	500	EMSCO GB-250-T	400	6,500
	20	dsl	410	EMSCO GB-250	400	6,500/4"
Parker Drlg	88	gas-elec	2000	National 130	3000	25,000
CUSTER						
Baker & Taylor Drlg	14	dsl	1140	M-CSCO U-40	1140	18,000
DEWITT						
Atco Drlg Southern	9	dsl-elec		National 110		18,000
DAWSON						
Blocker Drlg	10	dsl	840	Ideco Hydrair H-37 ESC	430	7,500
Cactus Drlg (NM)	59	dsl	502	Brewster N-4	454	6,000
Cactus Drlg (TX)	59	dsl	520	Brewster N-4	454	6,000
Chico Drlg	3	dsl	1300	EMSCO D-2	1240	14,000
Hillin Drlg	5	dsl	1200	National H-1200	1200	15,000
Hondo Drlg	7	gas	1000	Brewster N-55	750	10,500
	9	dsl	1050	Brewster N-55	800	10,000
Robinson Drlg of Texas	6	dsl	950	Bethlehem M-58	1350	12,500
Sterling Drlg (TX)	9	dsl	1350	Brewster N-75	1100	14,000
Tahoe Drlg	1	dsl	900	National 50-CA	1250	11,500
Wes-Tex Drlg	3	dsl	700	National 50-A	700	10,000
	4	dsl	650	EMSCO G-500	650	1,000
DEWITT						
Buzzini Drlg	8	dsl	3600	OILWELL M-2000	2400	25,000
Southland Drlg	12	dsl	2300	M-CSCO 1500-A	2300	24,000
DICKENS						
Wes-Mor Drlg	8	gas-btne		M-CSCO U-15		6,500
DUVAL						
Helmerich & Payne Intl Drlg	37	dsl	3270	OILWELL M-2000	3270	22,000
Matagorda Marine Drlg	11	dsl	2600	National 110	2000	18,000
EASTLAND						
IX Drlg	2	dsl	476	EMSCO GA-250-T	476	6,000
J & W Drlg	1	dsl-gas	180	Hydril M-H	220	4,000
	2	gas	180	Ideco 150	180	3,500
Sweetwater Drlg	4	dsl	575	National T-20	475	6,500
Tierra Drlg	2	dsl	650	Bethlehem S-45	650	7,000
Wes-Mor Drlg	2	dsl		M-CSCO U-34		6,000
ECTOR						
Brown Tom	18	dsl	840	M-CSCO U-15-CA	840	10,000
Cactus Drlg (NM)	53	dsl	502	Bethlehem S-55	875	7,500
	58	dsl	446	Bethlehem S-45-E	454	6,500
	53	dsl	520	Bethlehem S-55	670	7,500
	53	dsl	520	Bethlehem S-45-E	454	6,500
Cherokee Drlg & Dev	2	dsl	1150	Wilson 75	900	1,100
Hillin Drlg	3	dsl	500	BDW 450-T	575	7,500
	9	dsl	600	Ideco H-40	600	7,000
Johnn Drlg	10	dsl	800	OILWELL 66	800	10,000
Verna Corp	11	dsl	500	M-CSCO U-15		11,500
	12	dsl	500	M-CSCO U-15	600	11,500
	13		600	Brewster N-4	400	6,500
	14	dsl	500	Wilson Mogul 42	550	7,000
	15	dsl	600	M-CSCO	600	11,500
	16	dsl	600	Brewster N-14	450	6,500
	17	dsl	550	M-CSCO U-15	650	11,500
	18	dsl-elec	1000	National 1320-E	2000	22,000
	19	dsl	550	M-CSCO U-15	600	11,500
	20	dsl	1000	Verna Drlg	15000	13,000
	34	dsl	1000	EMSCO A-800	1200	15,000
ERATH						
Min-Tex Drlg	28	dsl	400	Cardwell L	500	5,200
FAYETTE						
Brown Tom	8	dsl	700	National 50-CA	700	10,000
Butler Drlg	3	dsl	1450	Brewster N-75	1100	12,500
	7	dsl	950	Brewster N-45	500	10,000

TEXAS (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
FAYETTE (Contd)						
Cactus Drlg Corp	22	dsl	1650	National 100	2025	18,000
	7	dsl	1500	OILWELL 76	1770	14,000
Challenger Drlg	17	dsl	1900	Cabot/Franks 1000	1000	12,000
Cinco Drlg	1	dsl	900	M-CSCO U-15	780	11,000
Crawford Drlg	10	dsl	800	EMSCO GB-800	800	14,000
	11	dsl	600	National 50-A	800	11,000
	4	dsl	600	M-CSCO U-15	800	10,000
	5	dsl	600	M-CSCO U-15	800	10,000
	6		600	M-CSCO	800	10,000
Dixon Drlg	10	dsl	1300	Bethlehem S-60	500	10,000
Eagle Prod & Drlg Serv	4	dsl-elec	2000	OILWELL E-760	1000	16,000
FWA Drlg	24	dsl	1350	Wilson Mogul 42	800	11.000
Moran E W Drlg	19	dsl	1200	Wilson 75	900	10,500
New & Hughes Drlg	12	dsl	800	Wilson Giant	800	13,000
O'Connor & Young Drlg	103	dsl-elec	1000	National 370-E	500	10,000
Penrod Drlg	125	dsl	1000	National 80-B	1760	15,000
Richards Drlg	4	dsl	1400	OILWELL 66	1200	10,500
Rosamond Drlg	7	dsl	1450	Brewster N-10	1275	13,500
South Texas Drlg	6	dsl	500	Brewster N-46	800	10,000
Sterling Drlg (TX)	15	dsl	1400	Brewster N-75	1100	14,000
	16	dsl	1400	Brewster N-75	1230	14,000
	5	dsl	1230	National 50-CA	820	11,000
Tierra Drlg	17	dsl-elec	800	BDW-650	650	12,000
FISHER						
Bandera Drlg	6	dsl	600	Unit 34	360	6,500
Hack Drlg	3	dsl	350	Bethlehem S-45-E	350	7,000
Sojourner Drlg	1	dsl		M-CSCO U-15	550	7,000
	2	dsl		M-CSCO U-15	550	7,000
	5	dsl	250	M-CSCO U-15	550	7,000
Tri-J Drlg	3	dsl	500	Mayhew 3000	250	3,000
FOARD						
Bearden Jack E Drlg	7	dsl	600	Wilson Mogul	400	6,500/4"
Luke Grace Drlg	2	dsl	500	M-CSCO U-15	750	10,500
FORT BEND						
Drillers	10	dsl	1600	National 100-M	1600	18,000
Richards Operating	9	dsl-elec	3400	OILWELL E-3000	3000	30,000
FRANKLIN						
Cape Drlg	5	dsl	400	Walker-Neer Apache 950-40	425	6,000
Lester Dan Drlg	9	dsl		OILWELL Div US Steel	1500	16,000
FREESTONE						
Cliffs Drlg	29	dsl	1300	National 110	1300	20,000
Delta Drlg	5	dsl	2000	National 100	1560	16,000
Eagle Prod & Drlg Serv	5	dsl-elec	2000	OILWELL E-2000	2000	25,000
France Drlg	2	dsl	1700	OILWELL 760	1700	17,000
FWA Drlg	27	dsl	2000	Gar-Den 800-M	1350	15,000
Hinton W B Drlg	7	dsl	1600	National 80-B	1650	15,000
Maxwell Herring Drlg	17	dsl	2500	Bethlehem	2400	20,000
	18	dsl	3250	Gar-Den	2700	23,000
O'Connor & Young Drlg	151	dsl-elec	1000	Brewster NE-95	500	10,000
FRIO						
Bearden Jack E Drlg	6	dsl	1200	Wilson 75	750	9,500
Cactus Drlg (NM)	55	dsl	502	Ideco H-35	670	6,500
	61	dsl	502	National T-20	460	6,000
	62	dsl	502	Ideco H-35	454	6,500
Cactus Drlg (TX)	55	dsl	520	Ideco H-35	670	6,500
	61	dsl	520	National T-20	460	6,000
	62	dsl	520	Ideco H-35	454	6,500
Dixon Drlg	11	dsl	600	National T-20	300	7,500
South Texas Drlg	1	dsl	500	Brewster N-45	500	8,000
FT BEND						
Butler Drlg	9	dsl	1250	Gar-Den 500	600	10,500
Helmerich & Payne Intl Drlg	83	scr	2000	OILWELL E-2000	1400	30,000
Southland Drlg	6	dsl	600	Howard-Turner 1887-600-TD	600	8,500
GAINES						
Brown Tom	3	gas	700	National 50	700	10,500
Cactus Drlg (NM)	52	dsl	550	Ideco H-35	454	6,500
	60	dsl	502	Bethlehem S-45-E	454	6,500
	63	dsl	502	Brewster N-4	454	6,500
Cactus Drlg (TX)	18	dsl	1200	National T-32	1000	8,500
	52	dsl	520	Ideco H-35	454	6,500
	60	dsl	520	Bethlehem S-45-E	454	6,500
Cactus Drlg Corp	18	dsl	920	National T-32	626	8,000
Moranco	9	dsl	750	Brewster N-55	750	11,000
Rod Ric	7	dsl	770	Wagner-Morehouse Helihoist	900	10,000/4"
	9	dsl	750	Ideco H-35	600	8,000
Tri-Service Drlg	3	gas-btne	750	OILWELL 76	750	13,000
GALVESTON						
Butler Drlg	10	dsl-elec	2000	Brewster W-95	1750	18,000
	4	gas	1600	Gar-Den 1100	1600	18,000
[illegible].C Mallard Well	19	dsl	1300	Wilson 90	800	14,500
Inland Well Serv	8	dsl	400	Ideco H-35	350	6,000
Southland Drlg	3	dsl	1300	Brewster N-75	750	11,000
GARZA						
Wes-Tex Drlg	11	dsl	450	Bethlehem S-55	700	10,000
	5	dsl	550	National 50-A	700	10,000

TEXAS (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
GLASSCOCK						
Cactus Drlg Corp	14	dsl	850	OILWELL 66	942	11,000
Delta Drlg	98	dsl	1500	Wilson Giant Roadair	784	12,500
Tri-Service Drlg	4	gas-btne	700	OILWELL 66	700	10,000
Tucker Drlg	1	dsl	750	Brewster N-55	750	10,000
Willbaos Drlg	3	dsl	800	Unit U-15	800	11,000
GOLIAD						
Blocker Drlg	8	dsl	1900	Cabot/Franks Expl III 1200	1165	14,000
Corpus Christi Drlg	4	dsl	300	Wilson Super 38	250	5,450/3½"
Loffland Bros	322	dsl	1800	Gar-Den 800	2100	17,000
Rhodes & Hicks Drlg	6	dsl	600	Cabot/Franks 750	700	9,000/4"
GONZALES						
BDK Drlg	8	dsl	1000	Brewster 4610	750	10,000
Brown Tom	10	dsl	700	M-CSCO U-15-CA	700	10,500
	6	dsl	700	National 75-CA	700	12,000
Cactus Drlg Corp	23	dsl	1700	National 100	1894	17,000
Cinco Drlg	2	dsl	890	National T-32	850	8,000
Crawford Drlg	2	dsl	600	M-CSCO U-15	800	10,000
Culver Drlg	12	dsl	1000	National 55	1000	11,000
Hondo Drlg	11	dsl	950	M-CSCO U-15	700	10,500
N & C Drlg	1	dsl	1800	Brewster N-46	13000	13,000
	3	dsl	1800	Brewster N-46	900	13,000
Republic Drlg & Serv	6	dsl	800	Ideco 525	700	10,000
Resource Drlg	RD-20	dsl	1040	National 610	1220	12,000
	RD-23	dsl	1040	National 610	1220	12,000
South Texas Drlg	5	dsl	500	Brewster N-45	500	6,000
Tierra Drlg	10	dsl	650	BDW-650	700	12,000
	11	dsl	650	BDW-650	700	12,000
GRAY						
Service Drlg (TX)	11	dsl	420	M-CSCO U-34	420	6,000
GRAYSON						
Big Chief Drlg	30	gas	1515	Ideco 1050	1515	15,000
Guffey-Schlensker Drlg	1	dsl	700	Unit U-36-A	933	11,000
Moran E W Drlg	14	dsl	1600	Wilson 150	1000	15,000
	15	dsl	900	Bethlehem S-55	750	10,000
	21	dsl	1600	Wilson 120	1000	15,000
	3	dsl	1100	Wilson Giant	800	12,000
Nicor Drlg	63	dsl	2650	OILWELL 96	1500	18,000
TRG Drlg	5	dsl	1400	National 75	1305	13,000
Viersen & Cochran Drlg	18	dsl	1000	National		
GREGG						
Justiss Oil	27	dsl	700	Bethlehem MC-450	900	12,000
Maxwell Herring Drlg	15	dsl	1200	Spencer	400	10,000
Pool Well Serv	102	dsl	350	Wilson Mogul 42 Double Drum	500	5,500
	122	dsl	375	M-CSCO U-34	350	5,500
	188	dsl	1000	Wilson 42	500	5,500
	229	dsl	379	Cabot/Franks 750	750	5,500
	61	dsl	450	Pool	500	5,500
United Drlg Co of Tyler	8	dsl	1600	Bethlehem M-58	1200	13,000
GRIMES						
Brown Tom	9	dsl	1050	National 75-CA	1050	12,500
Nicklos Drlg	76	dsl-elec	2600	National 1320-UE	1800	25,000
Pernie Bailey Drlg	1	dsl	1500	Brewster N-75	850	12,000
T-L Drlg	2	dsl	2000	Brewster N-75	1200	14,000
HANSFORD						
Unit Drlg & Expl	7	dsl	500	Unit U-15	960	10,000
Zenith Drlg	8	dsl	600	EMSCO GB-350	600	8,500
HARDEMAN						
Bearden Jack E Drlg	1	dsl	1200	Wilson Mogul 42	750	9,000
	8	dsl	1200	Wilson 75	700	9,500/4"
Crawford Drlg	1	dsl	350	M-CSCO U-15	600	8,500
Luke Grace Drlg	1	gas-btne	500	M-CSCO U-15	750	10,500
Moran E W Drlg	18	dsl	800	Spencer 7000	500	800
	6	dsl	900	Bethlehem S-55	750	10,000
Safari Drlg	1	dsl	640	Unit U-15	640	10,000
HARDIN						
Big 6 Drlg	6	dsl	800	Cabot/Franks	950	12,000
Circle Bar Drlg	1	dsl	2000	Ideco Super 7-11	2100	17,000
Faith Drlg	2	dsl	1500	National 55	1300	12,000
Goldrus Drlg	19	dsl	1110	Cabot/Franks 750	560	10,000/4"
Loffland Bros	110	dsl	2160	Brewster N-12	2400	22,500
Resource Drlg	15	dsl	1560	National 80-B	1835	14,000
Stone M L Drlg	2	gas	100	Wilson Jr	100	2,000
Transcontinental Equip	83	dsl	1000	Gar-Den 800	1000	13,000
HARRIS						
Bawden Drlg	3	scr	2100	National 110-E	1500	16,000
Bawden Peter Drlg	2	dsl-elec	2400	National 1320-UE	2000	22,000/5"
Landford Drlg	3	dsl	300	Joy	200	2,000
Nicklos Drlg	78	dsl	1400	National 80-B	1080	14,000
San Jacinto Drlg	2	gas-dsl	1250	Cardwell	600	9,000
Southland Drlg	1	dsl	700	EMSCO GB-500	700	10,000
	9	dsl	600	Brewster N-45	600	7,500
T-L Drlg	10	dsl	2000	Brewster N-75	1200	12,500
HARRISON						
Atco Drlg Southern	53	dsl	1200	National 610-UE	1200	12,000
Butler-Johnson	12	dsl	1300	Gar-Den M-700	1300	12,500

TEXAS (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
HARRISON (Contd)						
France Drlg	4	dsl	1300	Gar-Den 500	800	11,000
Gibson Drlg	2	dsl	526	Wilson Mogul 65	398	5,000
Justiss Oil	14	dsl	800	EMSCO GB-500	900	11,000
	32	gas-btne	700	Bethlehem 450	900	12,000
	38	dsl	2600	EMSCO J-1100	2600	20,000
	8	dsl	450	EMSCO GA-500	900	11,000
Lohmann-Johnson Drlg	17	gas	800	M-CSCO U-15 S/N 356	600	10,000
Noble Drlg	OW-77	dsl	800	OILWELL 760	800	14,000
Transcontinental Drlg	23	dsl	1000	Brewster N-75	1000	12,000
	35	dsl	1000	Gar-Den 800-M	1000	13,000
HASKEL						
Morrison Drlg & Prod	101	dsl	450	National T-20	476	6,000
HEMPHILL						
Act Drlg	2	dsl	1750	National 125	1950	23,000
Baker & Taylor Drlg	2	dsl	1400	M-CSCO U-20	1400	20,000
	3	dsl	1200	M-CSCO U-20	1200	18,000
Drillers	24	dsl	700	Brewster N-55	700	11,000
	27	dsl	700	EMSCO GB-500	750	10,000
Hudson Leonard Drlg	3	dsl	500	M-CSCO U-15	900	11,000
	5	dsl	550	Brewster N-7	900	11,500
Parker Drlg	164	dsl	1650	OIME SL-1500-P	1650	20,000
Quarles Drlg	6	dsl	2000	Brewster N-95	2200	22,000
Trigg Drlg	7	dsl	1200	Brewster N-95	1600	20,000
	8	dsl	1200	National 1215	1600	20,000
Unit Drlg & Expl	11	dsl	1000	Gar-Den 700	1300	14,000
	14	dsl	1000	Gar-Den 700	800	14,000
	18	dsl	1000	Gar-Den 500	1300	15,000
	19	dsl	700	Gar-Den	960	12,000
Viersen & Cochran Drlg	6	dsl	2000	Bethlehem 1013	2400	25,000
HENDERSON						
Butler-Johnson	11	dsl-elec	2000	National 110-UE	2000	20,000
FWA Drlg	20	dsl	1600	Wilson Super Atlas	1000	13,000
Maxwell Herring Drlg	3	dsl	1000	Wilson Atlas	1000	12,000
HIDALGO						
Blocker Drlg	1	dsl	815	Cabot/Franks Series 750	650	9,500
	14	dsl	2500	National 110	2730	20,000
	17	dsl	825	Spencer	750	6,000
Delta Drlg	20	dsl-el-scr	2600	EMSCO C-2	3456	20,000
	87	dsl-scr	2000	EMSCO D-3	2592	16,000
Dixilyn-Field Drlg	12	dsl	2600	National 110-M	2331	18,000
	5	dsl	1850	National 110	1638	18,000
	9	dsl	2650	National 130	2331	25,000
Harkins & Co	1	dsl	1800	EMSCO C-Type III	1800	18,000/5"
	7	dsl	1650	National 110	1650	16,000/5"
Resource Drlg	4	dsl	1560	National 80-B	1835	14,000
Willis Drlg	2	dsl	1000	Bethlehem B-Line MC-450	1000	12,000
	4	dsl	1200	Brewster N-85	1200	14,000
	6	dsl	3000	Ideco	3000	25,000
Wilson Bros Drlg	1	dsl-elec	2600	Ideco E-2100	2100	21,000
HOCKLEY						
Chico Drlg	4	dsl	1000	Unit U-15-A	878	11,000
	7	dsl	1050	EMSCO D-1	878	11,000
DB Drlg	9	dsl	830	Unit U-34	530	7,000
Kenai Drlg of Texas	28	dsl	1000	Brewster N-72	1200	10,000
	28	dsl	800	Brewster N-7	900	14,000
Norton Drlg	1	dsl	450	Wilson 65-P	900	10,000
Sitton Drlg	5	dsl	650	Wilson 75-P	900	11,500
	6	dsl	450	Wilson 75-P	900	10,000
Texland Drlg	3	dsl	775	Bethlehem S-45-E	750	9,000
Verna Corp	1	dsl	50	Brewster N-55	600	12,000
	10	dsl	700	M-CSCO U-36-A	600	12,000
	2	dsl	550	Brewster N-55	600	12,500
	26	dsl	500	Ideco H-40	400	8,000
	3	dsl	300	Brewster N-45	450	6,500
	33	dsl	550	Wilson Giant	500	9,000
	4	dsl	500	Brewster N-4	400	6,500
	5	dsl	500	Wilson Mogul	400	6,500
	6	dsl	550	Brewster N-55	600	9,000
	7	dsl	700	Wilson Giant Roadair	600	9,000
	8	dsl	500	Ideco H-40	400	6,500
	9	dsl	600	Ideco H-40	450	6,500
HOPKINS						
Butler-Johnson	2	dsl	1900	Brewster N-85	1900	15,000
Hinton W B Drlg	3	dsl	1700	National 80-B	1650	15,000
HOUSTON						
Brown Tom	25	dsl	700	Gar-Den 500	700	12,000
Justiss Oil	31	gas-btne	500	Wilson Giant Roadair	650	10,000
Loffland Bros	203	dsl	1140	M-CSCO U-15	1000	11,500
Noble Drlg	23	dsl	3135	National 1320-DE	3135	22,000
HOWARD						
DB Drlg	8	dsl	830	Bethlehem S-55	700	10,000
Davis D L Drlg	1	dsl	200	Wilson Mogul	200	3,000/4"
Fiscus Drlg	1	dsl	200	Wilson Super 38-5	200	3,200
Moran Bros	53	dsl	600	Wilson Super 38	350	4,000
Robinson Drlg of Texas	4	dsl	750	National 50-A	900	12,500
Sterling Drlg (TX)	3	dsl	800	National 50-CA	820	10,000

TEXAS (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
HOWARD (Contd)						
Texland Drlg	4	dsl	1290	Unit U-15	950	10,000
HUDSPETH						
Sharp Drlg	65	dsl	2000	EMSCO D-3	1836	18,000
HUNT						
Maxwell Herring Drlg	2	dsl	1034	Bethlehem M-810	926	12,000
HUTCHINSON						
Service Drlg (OK)	6	dsl	300	Unit R-U34	300	5,500
Service Drlg (TX)	1	dsl	320	M-CSCO U-34	310	4,500
IRION						
Brushy Creek Drlg	5	dsl	250	Scharm 685	500	2,850
Sweetwater Drlg	5	dsl	950	M-CSCO U-15	950	11,500
Texland Drlg	1	dsl	675	Brewster N-4	540	7,100
Transcontinental Drlg	33	dsl	898	Unit U-15	650	8,500
	34	dsl	674	Bethlehem S-55	650	8,000
Tucker Drlg	5	dsl	750	EMSCO GE-500	750	10,000
	8	dsl	550	Ideco H-40	550	9,000
Wes-Tex Drlg	8	dsl	335	Dsl	500	8,000
JACK						
Crawford Drlg	3	dsl	350	Wilson Giant	350	6,500
Lin-Mour Drlg	2	gas	380	EMSCO G-350	380	6,500
	3	gas	250	Unit 34	180	5,000
	6	dsl	700	Wilson Giant	700	9,000
	8	gas	400	EMSCO G-42	400	6,500
MND Drlg	1359	gas	450	EMSCO 350	450	6,000
	51	dsl	660	National 50	550	7,000
	1359	gas	450	EMSCO 350	450	6,000
JEFFERSON						
Bertman Petr Serv	7	dsl	634	Wilson Mogul 42	634	6,000
Butler Drlg	2	dsl	1450	Brewster N-75	1100	12,500
Cactus Drlg Corp	25	dsl	1100	Ideco 7-11	1400	12,500
Dixilyn-Field Drlg	11	dsl	2600	National 110-M	2331	18,000
Dual Drlg	21	dsl	2600	EMSCO C-1	1500	22,000/5"
Goldrus Drlg	18	dsl	1700	1000 Cabot/Franks	872	14,000
	23	dsl	870	Cabot/Franks 900	680	12,000
Loffland Bros	145	dsl	2955	M-CSCO U-1220	2955	20,000
Matagorda Drlg	15	dsl	2000	National 80-B	1500	15,000
O'Connor & Young Drlg	202	dsl-elec	2600	Brewster NE-95	1750	18,000
Power Rig Drlg	19	dsl	3000	EMSCO C-3	3300	30,000
Richards Drlg	3	dsl	1800	Brewster N-75	1200	12,500
JIM HOGG						
Flournoy Drlg	6	dsl	800	Brewster N-45	600	9,000/4"
JIM WELLS						
Magee-Poole Drlg	1	dsl	1500	Cabot/Franks 900	950	11,000
	10	dsl	1500	Cabot/Franks 900	950	11,000
	11	dsl	2000	Cabot/Franks 1200	1300	14,000
	12	dsl	1500	Cabot/Franks 900	950	11,000
	2	dsl	1500	OIME 750-SL	1155	14,000
	3	dsl	940	Cabot/Franks 750	608	9,000
	4	dsl	1500	Cabot/Franks 900	950	11,000
	5	dsl	1500	Cabot/Franks 900	950	11,000
	6	dsl	2000	OIME SL-7	1300	16,800
	7	dsl	1130	Cabot/Franks 750	1130	9,000
	8	dsl	1500	Cabot/Franks 900	950	11,000
	9	dsl	2350	Cabot/Franks	1500	18,000
Murlynson Drlg	10	dsl	1000	M-CSCO U-15	600	10,000
Padre Drlg	8	dsl	700	Brewster H-14610	750	10,000
JONES						
Dixon Drlg	8	dsl	800	M-CSCO U-34-B	400	7,000
Jones Drlg Co	51	dsl	475	Brewster N-4	475	6,000
Syntek Drlg	2	dsl	400	Wilson	250	4,500
KARNES						
BDK Drlg	9	dsl	1480	Brewster N-75	1000	12,000
Delta Drlg	63	dsl-elec	2300	EMSCO C-1	2592	16,000
KAUFMAN						
Burris Drlg	108	dsl	1200	Wilson S-42	750	11,000
KENEDY						
Blocker Drlg	16	dsl	1080	Cabot/Franks Explorer III	950	12,000
Dixilyn-Field Drlg	6	dsl	2000	Unit 914-B	1536	20,000
Flournoy Drlg	8	dsl	800	Ideco BIR-800	950	10,000
Harkins & Co	10	dsl	1620	EMSCO B-1013	1620	16,000
KENT						
McCutchen J W Drlg	4	dsl	900	Wilson 90	900	12,500
KING						
Bearden Jack E Drlg	9	dsl	600	Wilson Mogul 1980	400	6,500
Moran Bros	54	dsl	750	National T-20	400	6,000
Wes-Mor Drlg	5	gas-btne	465	M-CSCO U-15	290	7,500
KLEBERG						
Dixilyn-Field Drlg	2	dsl	1300	National 610	1040	12,000
	3	dsl	1300	Brewster N-75	1020	12,000
	4	dsl	2600	National 1625-M	3105	30,000
	7	dsl	850	National T-32	700	8,500
Pool Well Serv	114	dsl	350	Wilson Mogul 42 Double Drum	500	5,500
	27	dsl		Cabot/Franks 500	500	5,500

TEXAS (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
KNOX						
Wes-Mor Drlg	1	dsl		M-CSCO U-15		8,000
LAVACA						
Cinco Drlg	9	dsl	1700	Bethlehem 650	1100	14,000
FWA Drlg	25	dsl	1350	Wilson 120	1350	16,000
	29	dsl	1800	National 110	1800	18,000
Howell Drlg	1	dsl	856	Cabot/Franks 900	900	11,000
	2	dsl	1300	Cabot/Franks 1200	1130	15,000
Loffland Bros	107	dsl	2160	Brewster N-12	2400	19,500
Resource Drlg	14	dsl	2330	National 110	2740	18,000
	16	dsl	1560	National 80-B	1835	14,000
LEE						
Cape Drlg	6	dsl	1000	Wilson Super Giant	800	11,500
Delta Drlg	81	dsl	1300	Spencer 7000	480	9,000
Dual Drlg	5	dsl	1500	Wilson Mogul	600	9,500
Hondo Drlg	2	dsl	1050	M-CSCO U-15-A	700	9,500
MGF Drlg-Lafayette	39	dsl	2450	National 125	2450	18,000
MGF Drlg-Midland	8	dsl	800	M-CSCO Rig U-15	800	10,000
Merit Drlg	8	dsl-scr	1200	OILWELL 660-E	700	11,000
Moran E W Drlg	23	dsl	1150	Wilson 75	900	10,500
Resource Drlg	18	dsl	1040	National 610	1220	12,000
Sterling Drlg (TX)	1	dsl	900	National 50-A	900	12,000
Tierra Drlg	18	dsl-elec	800	BDW-650	650	1,000
	19	dsl-elec	800	Unit 36-EA	650	12,000
	9	dsl	650	Unit U-15	700	10,000
LEON						
Atco Drlg Southern	59	dsl	2000	EMSCO 11-C	2000	18,000
Cape Drlg	1	dsl	650	Wilson 42 Mogul	500	8,500
Delta Drlg	6	dsl	260	EMSCO C-1	2592	22,000
Dual Drlg	11	dsl	2400	OILWELL 860	1400	19,000
FWA Drlg	26	dsl	2000	Gar-Den 800-M	1350	15,000
Gibson Drlg	7	dsl	895	EMSCO GB-350	660	8,500
Hinton W B Drlg	11	dsl-elec	2600	National 1320-UE	3000	25,000
Nicklos Drlg	28	dsl-elec	3000	EMSCO Electro-hoist III	3600	25,000
LIBERTY						
Delta Drlg	80	dsl	1300	Spencer 7000	480	9 000
Drillers	5	dsl	900	Unit U-15-M	1200	11,000
Goldrus Drlg	20	dsl	1950	Cabot/Franks 1200	1054	15,000
O'Connor & Young Drlg	101	dsl	1600	National 610	750	12,000
LIMESTONE						
Delta Drlg	15	dsl	1600	EMSCO D-3	1040	12,500
	21	dsl	2600	Gar-Den 1100	2592	17,000
Justiss Oil	36	dsl	1000	1013	1200	16,000
MGF Drlg-Lafayette	38	dsl	1800	EMSCO Model C-1	1800	17,000
LIPSCOMB						
Helmerich & Payne Intl Drlg	54	dsl	1450	OILWELL 76	1100	16,000
Hudson Leonard Drlg	1	dsl	500	M-CSCO U-15	900	11,000
	5	dsl	500	M-CSCO U-15	900	11,000
Midco Drlg	1	dsl	680	Unit U-15	680	9,000
	3	dsl	750	Unit 750	750	12,500
Moran Bros	64	dsl	1000	EMSCO GA-500	750	10,000
Quarles Drlg	5	dsl	850	National 50-A	500	12,000
Service Drlg (OK)	12	dsl	800	EMSCO D-2	1000	1,300
Service Drlg (TX)	5	dsl	600	EMSCO U-15	800	10,000
Sharp Drlg	38	dsl	1450	Bethlehem M-58	988	12,000
Unit Drlg & Expl	2	dsl	700	Unit U-15	960	11,000
	4	dsl	500	Unit U-15	960	10,000
Zenith Drlg	3	dsl	800	Brewster N-75	800	10,000
LIVE OAK						
Atco Drlg Southern	19	dsl	800	OILWELL 66	800	10,000
Buzzini Drlg	10	dsl	3600	OILWELL M-2000	2400	25,000
	9	dsl	3600	OILWELL M-200	2400	25,000
Delta Drlg	88		2600	EMSCO C-1	3456	18,000
Harkins & Co	8	dsl	1700	National 110	1700	16,000
Loffland Bros	88	dsl-elec	2160	M-CSCO U-712	2400	18,000
PRC Drlg	7	dsl	1700	Gar-Den 800-M	1040	16,000
Texas Drlg	5	dsl	1700	Cabot/Franks M-2550	1200	17,000
LOVING						
Loffland Bros	118	dsl-elec	3200	M-CSCO U-1220-EBD	3000	28,000
	331	dsl	2160	M-CSCO U-1220	2400	18,000
MGF Drlg-Midland	201	dsl	1600	National 1320-UE	2000	30,000
	202	dsl	1600	National 1320-UE	2000	30,000
Parker Drlg	198	gas	1600	OIME 1500	1600	22,000
	39	gas	1700	OIME Hercules 2500-M	2000	23,000
	65	gas	2000	National 100-M	2000	23,000
	66	gas	2400	National 130	2400	25,000
Quarles Drlg	2	dsl	1800	OIME 1000	1000	18,000
Rowan Drlg US	18	dsl	3200	EMSCO A-1500	2500	30,000
Santa Fe Drlg Western	10	dsl-elec	2000	EMSCO Electro-hoist II	1800	22,000
	2	gas	1850	Bethlehem B-1013	2118	21,000
Sharp Drlg	35	dsl	2600	Bethlehem 1013	2742	23,000
	43	dsl	2940	OILWELL M-2000	2742	30,000
	55	dsl	2970	Gar-Den 2100	2742	30,000
	59	dsl	2600	Bethlehem MC-950	2742	23,000
	61	dsl	2600	M-CSCO U-914-C	2742	23,500
	66	dsl-elec	2600	M-CSCO U-1220-E	2742	30,000
LOVING (Contd)						
Sharp Drlg	67	dsl	2600	M-CSCO U-914-C	2742	23,500
Tri-Service Drlg	6	gas-btne	1350	OILWELL 96	1350	16,000
LUBBOCK						
DB Drlg	1	dsl	720	Brewster N-4	540	7,500
	3	dsl	675	Brewster N-4	480	7,000
Norton Drlg	3	dsl	500	Wilson 75	900	10,500
LYNN						
Norton Drlg	4	dsl	500	Wilson 75	900	10,500
MC CULLOCH						
Commercial Drillers	1	dsl	300	Cabot/Franks T-65	270	4,000
MC MULLEN						
Delta Drlg	94	dsl-scr	2000	EMSCO D-3	2592	16,000
Harkins & Co	9	dsl	2100	EMSCO A-1100	2100	18,000/5"
Southland Drlg	5	dsl	700	Brewster N-55	700	10,000
MADISON						
Delta Drlg	40	dsl	1500	EMSCO D-2	784	11,000
F-W Drlg	11	dsl	750	Brewster N-46	800	12,000
Rosamond Drlg	5	dsl	1450	Bethlehem MC-450	1275	13,500
Rotary Drlg	1	dsl	800	EMSCO	700	10,500
United Drlg Co of Tyler	6	dsl	1200	Bethlehem M-58	800	13,000
MARION						
Globe Drlg	6	dsl	700	EMSCO C-50	700	10,000
Maxwell Herring Drlg	14	dsl	1000	Wilson Giant	900	12,000
MARTIN						
Brahaney Drlg	1	gas	900	National 75-CA	900	12,000
Brown Tom	24	dsl	1100	Gar-Den 700	1100	15,500
	5	dsl	700	National 50-CA	700	10,500
Cactus Drlg Corp	24	dsl	1000	National 75	1476	13,000
	4	dsl	1200	National 55	1400	14,000
FWA Drlg	11	dsl	1000	Wilson Giant	800	10,000
MGF Drlg-Midland	11	dsl	800	Bethlehem M-58	800	12,500
Robinson Drlg of Texas	5	dsl	750	M-CSCO U-15	900	9,500
Tri-Service Drlg	2	gas-btne	700	OILWELL 66	700	10,000
MATAGORDA						
O'Conner & Young Drlg	141	dsl-elec	2000	OIME SL-7	1000	14,000
	201	dsl-elec	2600	Brewster NE-95	1750	18,000
PRC Drlg	3	dsl	1250	Brewster N-46	730	10,000
Resource Drlg	5	dsl	2330	National 110	2740	18,000
Richards Drlg	8	dsl	2500	OILWELL 860	2400	18,000
Southland Drlg	11	dsl	2300	M-CSCO A-1500	2300	24,000
MAVERICK						
Sundown Drlg	1	dsl	450	EMSCO 160-GB	400	5,500
	2	dsl	400	Brewster N-35	350	5,500
MIDLAND						
Brown Tom	13	dsl	700	M-CSCO U-15-CA	700	10,000
Cactus Drlg Corp	1	dsl	1700	National 110	2145	18,000
	20	dsl	850	Brewster	540	7,000
FWA Drlg	2	dsl	1200	Wilson Super Giant	1050	13,000
Hillin Drlg	2	dsl	800	EMSCO G-500	800	11,000
MITCHELL						
GCO Drlg	2	dsl	640	BDW 450	450	7,500
Wes-Tex Drlg	12	dsl	335	Brewster N-4	500	8,000
	14	dsl	335	Brewster N-4	500	9,000
MONTAGUE						
Burns L D Drlg	5	dsl	744	Bethlehem S-55	600	10,000
Crawford Drlg	9	dsl	350	Wilson Roadaire	350	7,000
MND Drlg	61	dsl	600	M-CSCO U-15	600	9,000
MONTGOMERY						
Cactus Drlg Corp	3	dsl	1500	National 80-B	1770	16,000
Penrod Drlg	107	dsl	1000	National 80-B	1760	15,000
	118	dsl	1600	National 1625-M	3000	30,000
Richards Drlg	5	gas-btne	1200	Brewster N-75	900	12,500
MOORE						
Service Drlg (OK)	11	dsl	400	Unit R-U34	400	5,500
Service Drlg (TX)	6	dsl	320	M-CSCO U-34	310	5,000
Stahlco Drlg	1	dsl	510			5,000
	2	dsl	510	Ingersoll T-5	485	5,000
NACOGDOCHES						
Gibson Drlg	5	dsl	1030	Wilson 75-P	700	9,000
Wheless Drlg	10	dsl	1800	National 100	1800	14,000
NAVARRO						
France Drlg	3	elec	2400	OILWELL E-760	2400	17,000
FWA Drlg	28	dsl	1500	Gar-Den 1100	1500	18,000
Globe Drlg	5	dsl	850	OILWELL 76	1000	14,000
	7	dsl	1350	Gar-Den 1100	1500	20,000
Schlensker Drlg	3	dsl	700	OILWELL 760	1500	14,000
NEWTON						
Delta Drlg	90	dsl-elec	2000	EMSCO D-3	2592	16,000
Murco Drlg	42	dsl-el-scr	2800	OILWELL E-2000	2000	25,000
NOLAN						
Bandera Drlg	1	dsl	750	MAC 300	475	7,500
	5	dsl	650	MAC 300	475	7,500
	7	dsl	750	MAC 300	400	7,500
DB Drlg	10	dsl	675	Brewster N-4	480	7,000
F-W Drlg	6	dsl	600	National T-20	400	6,000
	7	dsl	700	Brewster N-4	500	7,000

TEXAS (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
NOLAN (Contd)						
GCO Drlg	1	dsl	640	National T-20	450	7,500
Herb Expl	1	btne		Failing 1500	100	1,500/2⅞"
Mesa Drlg	2	dsl	300	Weiss W-45	500	
Wes-Tex Drlg	16	dsl	335	Brewster N-4	500	8,000
NUECES						
Blocker Drlg	12	dsl	2000	OILWELL 96	2400	20,000
Corpus Christi Drlg	6	dsl	300	Brewster 550	450	6,000
CRC Mallard Well	11	dsl	800	Wilson Model 90	800	11,000
Dixilyn-Field Drlg	1	dsl	1300	Brewster N-75	1000	12,000
Flournoy Drlg	3	dsl	1560	M-CSCO U-40	1040	12,000
Harkins & Co	14	dsl	1150	Cabot/Franks 900	900	11,000/4"
	4	dsl	1260	Brewster N-75-A	1260	12,500
J & C Drlg	9	dsl	1050	Wilson 600	630	9,000
New & Hughes Drlg	11	dsl	900	EMSCO GA-500	600	11,500
PRC Drlg	6	dsl	1790	Brewster N-75	1040	13,000
Rhodes & Hicks Drlg	5	dsl	340	Cabot/Franks 500	450	6,000/4"
Texas Drlg	2	dsl	1700	Brewster N-7	1200	12,500
OCHILTREE						
Baker & Taylor Drlg	10	dsl	870	M-CSCO U-15	870	11,000
	12	dsl	870	M-CSCO U-15	870	11,000
Eagle Drlg Inc	4	dsl	1100	M-CSCO U-15	850	10,000
Hudson Leonard Drlg	2	dsl	500	M-CSCO U-15	900	9,000
	7	dsl	550	M-CSCO U-15	900	11,500
Midco Drlg	2	dsl	750	Unit U-15	750	12,500
Sage Drlg	6	dsl	400	EMSCO 350	400	8,000
Service Drlg (OK)	13	dsl	1100	Unit R-U34	900	12,000
	7	dsl	300	Bethlehem S-45	900	12,000
	4	dsl	500	M-CSCO U-15	800	9,200
Zenith Drlg	1	dsl	700	Brewster N-75	700	9,500
OLDHAM						
Baker & Taylor Drlg	1	dsl	870	M-CSCO U-15	870	10,000
ORANGE						
Big 6 Drlg	7	dsl	800	Ideco	600	10,000
Butler Drlg	5	dsl	1650	Brewster N-95	1650	18,000
PALO PINTO						
E & H Drlg	6	dsl	600	Wilson Mogul	350	6,500
IX Drlg	4	dsl	476	Wilson Mogul 42 Roadair	476	6,000
Lin-Mour Drlg	4	gas	400	Wilson Mogul	310	5,000
MND Drlg	57	dsl	500	National Ideal 50	500	6,000
Min-Tex Drlg	29	dsl	400	Duggam	500	7,000
Sawyer Drlg & Serv	3	dsl	1100	Brewster N-7	1100	12,000
PANHANDLE						
Petra Drlg	26	dsl	1000	National 55	1000	12,000
PANOLA						
Burris Drlg	104	dsl	800	EMSCO 350	500	10,000
Butler-Johnson	7	dsl	1200	National 55	1200	12,500
	8	dsl	2300	Gar-Den 1500	2200	20,000
	9	dsl	1200	Gar-Den 700	1200	12,000
Delta Drlg	22	dsl	1600	EMSCO D-3	1560	12,500
	74	dsl	1000	Spencer 7000	480	9,000/4"
France Drlg	5	elec	2400	OILWELL 760-E	2400	17,000
	6	dsl	1300	National 610	900	13,000
Justiss Oil	30	dsl	1000	Bethlehem 1013	1400	17,000
Murco Drlg	38	dsl-el-scr	1700	OILWELL 660-E	700	12,000
Paramount Drlg	11	dsl	1200	Bethlehem 450	1200	12,500
PARKER						
IX Drlg	1	dsl	950	EMSCO G-500	950	8,500
	3	dsl	392	Bethlehem	475	8,500
Min-Tex Drlg	34	dsl	400	Hyster Mod B	500	7,500
PECOS						
Cherokee Drlg & Dev	4	gas	1150	Wilson 75	900	11,000
Delta Drlg	36	dsl	2600	EMSCO C-2	2331	23,000
	4	dsl	2150	National 100	1560	16,000
Dual Drlg	19	dsl	2000	OILWELL 760	1000	16,000
Holliday Drlg	1	dsl	700	Gar-Den 700	1000	12,000
MGF Drlg-Midland	203	dsl	1300	National 110-UE	2000	20,000
Norwood A N	1	dsl	450	Wilson Super 38	350	5,500
Parker Drlg	121	dsl-elec	2700	Ideco E-3000	2700	30,000
	184	gas-elec	2750	National 1625-DE	2750	30,000
	74	gas	1800	National 100-M	1800	22,000
	87	gas	2000	Ideco 2000	2000	25,000
	90	gas	2000	National 130	2000	25,000
Penrod Drlg	114	dsl	1600	National 1625-M	3000	30,000
	121	dsl	1600	National	3000	30,000
Rod Ric	11	dsl	450	National T-20	440	5,000/4"
Rowan Drlg US	8	dsl	2600	M-CSCO U-1220-S	2400	25,000
Santa Fe Drlg Western	14	dsl	3200	EMSCO C-3-E	2000	30,000
	3	dsl-elec	2600	EMSCO A-1500-E	2700	30,000
	8	dsl-elec	2600	EMSCO A-1500-E	2700	30,000
Sharp Drlg	34	dsl	2925	Bethlehem 1013	2742	30,000
	60	dsl-elec	3200	EMSCO C-3 Type II	3656	30,000
	64	dsl	2200	OILWELL 760	1836	18,000
POLK						
Cliffs Drlg	33	dsl	1000	National 80-B	1000	14,500
Glasscock Drlg	67	dsl	2700	National 1320	2700	20,000
Hinton W B Drlg	8	dsl	1300	Spencer 7000	400	10,000/4"
Penrod Drlg	116	dsl	1300	National 1320-M	2000	25,000

TEXAS (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
POTTER						
Moran Bros	57	dsl	600	Wilson Super 38	350	4,000
Sharp Drlg	68	dsl-elec	2800	OILWELL M-2000-E	2742	30,000
	71	dsl-elec	2600	Unit U-914-EC	2742	23,500
REAGAN						
FWA Drlg	1	dsl	1000	Wilson Giant	800	10,000
	12	dsl	1000	Wilson Giant	800	10,000
	8	dsl	1000	Wilson Giant	800	10,000
MGF Drlg-Midland	2	dsl	800	M-CSCO U-15	800	10,000
Sterling Drlg (TX)	11	dsl	375	Ideco H-30	480	6,500
REEVES						
Cactus Drlg Corp	31	dsl	2000	National 125	2810	25,000
Loffland Bros	37	dsl-elec	2300	M-CSCO U-914-B	2000	18,000
Santa Fe Drlg Western	4	dsl-elec	2600	EMSCO C-111-E	2700	30,000
Tri-Service Drlg	10	dsl	1800	OILWELL 860	1800	21,000
REFUGIO						
FWA Drlg	16	dsl	600	Wilson Mogul 42	800	9,000
Padre Drlg	3	dsl	700	Brewster N-55	800	10,000
ROBERTS						
Helmerich & Payne Intl Drlg	46	dsl	1200	EMSCO GB-800	1200	13,500
Hudson Leonard Drlg	4	dsl	500	M-CSCO U-15	900	11,000
Moran Bros	63	dsl	1300	National T-45	800	10,000
Moran E W Drlg	29	dsl	1400	Gar-Den 700	800	12,500
Service Drlg (TX)	12	dsl	800	EMSCO D-2	900	12,000
Tierra Drlg	21	dsl-elec	800	BDW-800	800	14,000
Zenith Drlg	4	dsl	1100	Unit U-15	1100	12,000
ROBERTSON						
Alanco Drlg	1	dsl	500	Ideco H-40	500	8,500
Delta Drlg	44	dsl	1700	Brewster N-95	1560	16,000
RUNNELS						
Bandera Drlg	2	dsl	470	Unit 34	360	6,500
Hack Drlg	1	dsl	350	M-CSCO U-34	350	7,000
	2	dsl	350	Brewster N-4	350	5,500
Safari Drlg	3	dsl	340	Brewster N-4	300	7,000
	4	dsl	310	National T-20	270	6,000
	5	dsl	370	EMSCO GA-250-T	280	5,000
	6	dsl	300	EMSCO U-34	370	6,000
Syntek Drlg	1	dsl	500	National T-12	500	5,000
RUSK						
Burris Drlg	107	dsl	1000	Brewster N-55	750	10,000
Gibson Drlg	4	dsl	506	Wilson Mogul Model 65	398	5,000
Hinton W B Drlg	5	dsl	900	Spencer 7000	450	10,000/4"
Justiss Oil	15	dsl	450	Bethlehem 45-E	300	6,500
	17	dsl	350	Bethlehem S-45-E	350	7,500
	21	dsl	800	EMSCO GB-500	1000	12,000
	33	dsl	1000	OILWELL 96	1400	17,000
	34	gas-btne	700	Bethlehem M-58	1000	12,000
	5	dsl	450	Bethlehem S-45-E	300	6,500
Lester Dan Drlg	8	dsl	1850	OILWELL 760	1500	16,000
Thunderbolt Drlg	50	dsl	1750	Cabot/Franks 1200	1300	13,500
Woolf & Magee	2	dsl	1550	Gar-Den 700	1000	13,500
	3	dsl	1450	Gar-Den 700	1275	13,500
SAN AUGUSTINE						
Rosamond Drlg	6	dsl	1650	EMSCO A-550	1275	14,000
SAN PATRICIO						
Blocker Drlg	6	dsl	1300	Cabot/Franks HT Expl Rocket	950	10,000
Corpus Christi Drlg	5	dsl	300	Wilson Super 38	250	6,000/3½"
F-W Drlg	12	dsl	1000	Brewster N-46	800	13,000
PRC Drlg	5	dsl	1198	Gar-Den 700-M	800	13,000
Rhodes & Hicks Drlg	7	dsl	600	Cabot/Franks 700	650	8,500/4"
Southland Drlg	10	dsl	1800	Bethlehem 810	1600	17,000
SCHLEICHER						
Brown Tom	14	gas	700	M-CSCO U-15	700	10,000
Caraway Frank Drlg	1	dsl	750	EMSCO GB-250	570	7,500
	2	dsl	1300	EMSCO GB-350	750	8,500
Transcontinental Drlg	30	dsl	1000	Brewster N-55	850	11,000
Tucker Drlg	7	dsl	375	Bethlehem 5-60	600	7,000
SCURRY						
DB Drlg	2	dsl	675	National T-32	540	8,500
	6	dsl	1050	Brewster N-45	650	9,000
GCO Drlg	5	dsl	820	M-CSCO U-15	850	10,000
	6	dsl	620	Brewster N-45	600	8,000
Hack Drlg	4	dsl	225	National T-8	250	4,000
IX Drlg	7	dsl	476	Cardwell S-350	416	7,500
Moran Bros	55	dsl	600	Wilson Super 38	350	4,000
SHACKELFORD						
Jones Drlg Co	53	dsl	250	Houston Portable	220	3,000
	55	dsl	500	Bethlehem S-45	475	8,500
	5	dsl	600	Bethlehem S-45	400	6,000
SHELBY						
Atco Drlg Southern	4	dsl		National 55		12,000
Sawyer Drlg & Serv	9	dsl	800	Brewster N-45-M	800	10,000
United Drlg Co of Tyler	2	dsl	1200	Bethlehem M-58	800	13,000
SHERMAN						
Baker & Taylor Drlg	9	dsl	870	M-CSCO U-15	870	11,000

TEXAS (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
SHERMAN (Contd)						
Service Drlg (TX)	7	dsl	320	Bethlehem S-45	310	5,000
SMITH						
Burris Drlg	109	dsl	1200	EMSCO GC-50-C	750	13,500
Delta Drlg	54	dsl	2000	National 80-B	1560	14,000
Globe Drlg	8	dsl-elec	1500	Gar-Den GD-1000	1600	20,000
	9	dsl-elec	3000	Gar-Den GD-100	1600	20,000
Lester Dan Drlg	6	dsl	1800	Wilson 150-A	1800	16,000
Thunderbolt Drlg	51	dsl	2600	National 100-TC	2586	20,000
United Drlg Co of Tyler	11	dsl	1200	National 370	800	10,000
Verna Corp	21	dsl	550	M-CSCO	600	10,000
	22	dsl	550	M-CSCO U-15	600	10,000
	23	dsl	550	M-CSCO U-15	600	10,000
	24	dsl	550	M-CSCO U-15	600	10,000
	2[illegible]	[illegible]	1000	M-CSCO U-15	600	10,000
	2[illegible]	[illegible]	1000	M-CSCO U-15	600	10,000
	28	dsl	1000	M-CSCO U-15	600	10,000
	29	dsl	1000	M-CSCO U-15	600	10,000
	30	dsl	550	M-CSCO U-15	600	10,000
	35	dsl	1000	Ideco 711-SJ	1200	14,000
STARR						
Alanco Drlg	2	dsl	500	Ideco H-40	600	9,500
Flournoy Drlg	9	dsl	900	EMSCO C-50	480	9,000/4"
Harkins & Co	12	dsl	1050	Cabot/Franks 750	650	9,500
	13	dsl	1477	Cabot/Franks 1000	1000	12,000
STEPHENS						
E & H Drlg	4	LPG	550	M-CSCO U-15	550	7,500
Faulk Drlg	4	dsl	450	Brewster N-4	450	6,000
Jones Drlg Co	54	dsl	475	Bethlehem S-45	475	7,000
	4	dsl	600	Bethlehem S-45	400	5,000
Min-Tex Drlg	32	dsl	400	Hyster Mod B	500	7,500
Tierra Drlg	3	dsl	650	Wilson Toroaia	650	7,000
	7	dsl	550	National T-12	550	5,400
Wes-Mor Drlg	6	gas-btne		M-CSCO U-34		4,500
STERLING						
Cam Drlg	2	dsl	510	Bethlehem S-55	750	10,000
Kenai Drlg of Texas	25	dsl	700	EMSCO GB-500	800	11,000/4"
Robinson Drlg of Texas	2	dsl	750	M-CSCO U-15	900	10,000
Tucker Drlg	2	dsl	750	EMSCO GB-500	750	10,000
Wes-Tex Drlg	1	dsl	650	National 50-A	650	10,000
STONEWALL						
DB Drlg	4	dsl	675	Unit U-34	540	7,000
Safari Drlg	2	dsl	370	Cardwell L-350	370	7,000
Sojourner Drlg	3	dsl		M-CSCO U-15	550	7,000
	4	dsl		M-CSCO U-15	550	7,000
Tri-J Drlg	5	dsl	375	Wichtex R-6-A	350	5,000
Wes-Mor Drlg	12	dsl	2500	Unit U-15	2500	9,000
SUTTON						
Brown Tom	11	gas	500	M-CSCO U-15	500	10,000
Delta Drlg	70	dsl	1000	Spencer 6000	380	7,000
Tucker Drlg	4	dsl	214	M-CSCO U-15	450	7,500
	9	dsl	750	National	750	10,000
Wes-Tex Drlg	15	dsl	335	Brewster N-4	500	8,000
TAYLOR						
F-W Drlg	2	dsl	600	M-CSCO U-34	450	7,000
	4	dsl	500	M-CSCO U-34	500	65,000
TERRELL						
DB Drlg	13	dsl	1290	National 50-A	950	10,000
	14	dsl	1290	National 50-A	950	10,000
Delta Drlg	2	dsl	1400	Gar-Den 700-M	784	12,500
	61	dsl	1800	Ideco Super 7-11	1040	12,500
Wes-Tex Drlg	7	dsl	335	Brewster N-4	450	8,000
TERRY						
Cactus Drlg Corp	15	dsl	12000	Bethlehem 650	1200	15,000
	34	dsl	1290	National 75	1230	12,000
Chico Drlg	1	dsl	1100	BDW-650-M	878	12,500
	6	dsl	1300	EMSCO D-2	1224	14,000
Norton Drlg	7	dsl	450	Wilson 65	600	8,500
Resource Drlg	RD-26	dsl	1560	National 80-B	1835	14,000
Sitton Drlg	4	dsl	450	Wilson 75-P	900	10,000
Tahoe Drlg	2	dsl	850	Brewster N-4	458	7,000
Willbaos Drlg	4	dsl	1700	National 55	1260	14,000
THROCKMORTON						
Carter Dev	2	dsl	300	Wilson Mogul	300	6,000
E & H Drlg	1	dsl	700	M-CSCO U-15	700	7,500
F-W Drlg	5	dsl	600	Ideco H-25	450	6,000
Min-Tex Drlg	33	dsl	350	Wilson Mogul	475	5,200
Oilwell Drlg	2	dsl	476	Bethlehem S-50	476	5,500
	5	dsl	476	Wilson Mogul	476	5,500
	6	dsl	476	Wilson Super	5500	
Simmons Drlg	46	dsl	350	Troy M-500	350	7,500
Tierra Drlg	4	dsl	500	National T-12	500	6,000
TITUS						
Gibson Drlg	8	dsl	529	Wilson 65	380	5,000
TOM GREEN						
DB Drlg	11	dsl	770	Shaffer 5036000	540	8,000
Texland Drlg	2	dsl	750	Unit U-34	480	7,100
Tucker Drlg	3	dsl	350	Brewster N-45	600	6,500
TYLER						
Atco Drlg Southern	11	dsl		National 55		12,000

TEXAS (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
TYLER (Contd)						
Safari Drlg	7	dsl	480	EMSCO G-42	560	7,000
UNDER CONSTRUCTION						
Resource Drlg	RD-27	dsl	1560	National 80-B	1835	14,000
	RD-28	dsl	1040	National 610	1220	12,000
	RD-29	dsl	1560	National 80-B	1835	14,000
	RD-30	dsl	3105	National 1625	3740	30,000
UPSHUR						
Rainbow Drlg	5	dsl	2000	Cabot/Franks 1200	1200	14,000
United Drlg Co of Tyler	5	dsl	1200	Brewster N-75	1200	15,000
UPTON						
Brown Tom	4	dsl	840	National 50-CA	840	10,000
FWA Drlg	17	dsl	1000	Wilson Giant	800	10,000
	3	dsl	1200	Wilson Super Giant	1050	13,000
	30	dsl	1000	Wilson Giant	800	10,000
	4	dsl	1000	Wilson Giant	800	10,000
MGF Drlg-Midland	10	dsl	750	Bethlehem M-58	750	12,000
VAL VERDE						
Penrod Drlg	25	dsl	2600	EMSCO C-2	1950	25,000
VICTORIA						
BDK Drlg	1	dsl	700	Wilson Giant	580	8,500/4"
	10	dsl	1000	Brewster N-46	900	10,000
FWA Drlg	18	dsl	500	Wilson Mogul 42	500	6,500
G-E Drlg	2	dsl	500	Unit 34	500	6,700
	4	dsl	460	Bethlehem S-45-B	460	5,600
	6	dsl	900	National 50-CA	900	10,100
	8	dsl	500	Ideco H-400-B	500	8,000
Padre Drlg	2	dsl	500	Brewster H-4210	400	7,500
WALKER						
O'Connor & Young Drlg	102	dsl	2000	National 610	750	12,000
WALLER						
Cliffs Drlg	41	dsl	1300	National 1320	1300	25,000
Eagle Prod & Drlg Serv	1	dsl-elec	2000	OILWELL 840-E	3000	20,000
Harkins & Co	3	dsl	1260	Brewster N-75-A	1260	12,500
Penrod Drlg	111	dsl	1950	National 1625-M	3000	30,000
	124	dsl	1600	National 1625-M	3000	30,000
WARD						
Brahaney Drlg	6	gas	1200	National 100	1200	15,000
Brown Tom	15	gas	700	M-CSCO U-15	700	10,500
Johnn Drlg	4	dsl	700	M-CSCO U-15	700	8,500
	5	dsl	700	M-CSCO U-15	700	8,500
Kenai Drlg of Texas	13	dsl	800	EMSCO GA-250-T	400	6,500
Landford Drlg	1	dsl	150	Mayhew	150	1,000
Loffland Bros	117	dsl-elec	3200	M-CSCO U-1220-EBD	3000	28,000
Moran Drlg	39	dsl-elec	2600	M-CSCO C-1	1500	20,000
Norwood A N	3	gas	1000	Brewster N-4	450	6,000
Rowan Drlg US	12	dsl	2000	National 1320-M	2100	18,000
Santa Fe Drlg Western	5	gas	2600	Bethlehem B-1013	2118	22,000
	6	dsl-elec	2600	EMSCO C-111	2700	30,000
WASHINGTON						
Delta Drlg	17	dsl-el-scr	2300	EMSCO C-1	2592	16,000
Richards-Armstrong	7	dsl	1900	Cabot/Franks 1000	900	12,500
Welsh Drlg & Serv	12	dsl	1300	National 100	1200	14,500
WASHITA						
Helmerich & Payne Intl Drlg	48	dsl	1820	National 110	1820	22,000
WEBB						
Bearden Jack E Drlg	3	dsl	1200	Wilson Mogul	700	9,500
Delta Drlg	89	dsl-scr	2000	EMSCO D-3	2592	16,000
Dixilyn-Field Drlg	10	dsl	1295	National 55	1040	12,000
	20	dsl	1500	Brewster N-75	1040	12,000
	24	dsl	2500	OILWELL 860	2331	18,000
Dixon Drlg	12	dsl	800	Brewster N-4	300	7,000
	9	dsl	600	Spencer 5000 Port	300	6,000
Harkins & Co	11	dsl	1260	Brewster N-75	1260	12,500
	2	dsl	1500	Brewster N-95	1500	14,000
	5	dsl	950	Cabot/Franks 750	650	9,500/4"
	6	dsl	1260	Brewster N-75-A	1260	12,500
Robinson Bros Drlg	14	dsl	900	National 50	800	11,000
Southland Drlg	4	dsl	850	Brewster N-7	900	10,000
WHARTON						
Bilbo Drlg	1	dsl	500	Brewster N-4-A	500	8,000
Frio Drlg	2	dsl	800	National J-45	600	10,000
Padre Drlg	6	dsl	500	Brewster H-4210	400	7,500
	7	dsl	700	Brewster H-14610	750	10,000
PRC Drlg	1	dsl	800	Brewster H-4610-A	500	8,000
WHEELER						
Arden Drlg	1	dsl-elec	1600	EMSCO D-2	1200	16,000
Baker & Taylor Drlg	5	dsl	1400	M-CSCO U-20	1400	22,000
Drillers	40	dsl-elec	2100	Gar-Den 1100-E	2100	24,000
Helmerich & Payne Intl Drlg	44	dsl	2160	OILWELL 96	2160	22,000
	47	dsl	2475	OILWELL H-2000	2475	26,000
Loffland Bros	317	dsl	2250	Gar-Den 2100	2500	24,000
Moran Bros	37	dsl	1000	National 610	1000	12,000
Murco Drlg	30	dsl	2800	OILWELL N-200-B	3000	25,000
Parker Drlg	149	gas	1000	National 75	1000	16,000

TEXAS (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
WHEELER (Contd)						
Parker Drlg	178	dsl	2200	OIME SL-1500-P	2200	25,000
Penrod Drlg	3	dsl	2600	National 1320-M	3425	25,000
Ratliff Drlg	31	dsl	1650	Texas Flange	1650	18,000
Robinson Bros Drlg	9	dsl-elec	1700	Ideco 1200	2000	22,000
Sandia Drlg	2	dsl	4000	EMSCO C-1	4000	22,000
Sharp Drlg	58	dsl	2670	OILWELL 96	2895	23,000
WILBARGER						
Lin-Mour Drlg	31	gas	700	Wilson Giant	700	9,000
WILSON						
Atco Drlg Southern	7	dsl	800	Ideco Super 750	800	10,500
Cinco Drlg	4	dsl	1005	Brewster N-45	780	8,500
Flournoy Drlg	4	dsl	900	Cabot/Franks Explorer III	600	9,000/4"
	5	dsl	1200	Cabot/Franks Rocket 1000	950	12,000
IX Drlg	9	dsl	850	Shaevco	650	10,000
WINKLER						
Ard Drlg	1	dsl	600	Spencer	670	8,500
Brahaney Drlg	4	gas	1200	EMSCO J-1000	1200	15,000
Cactus Drlg Corp	2	dsl	2000	EMSCO A-1500	2976	23,000
	27	gas	2000	Brewster N-20	2976	30,000
	9	dsl	1200	Brewster N-75	1476	13,500
Holliday Drlg	2	dsl	700	OILWELL 76	1200	14,000
Kenai Drlg of Texas	13	dsl	400	EMSCO GA-250	400	7,000/4"
Moran Bros	51	dsl	750	Ideco H-30	350	5,000
Norwood A N	4	dsl	600	National T-20	450	6,000
Sterling Drlg (TX)	4	dsl	1075	National 50-A	900	12,000
WISE						
Crawford Drlg	8	dsl	350	OILWELL 64-B	350	7,000
MND Drlg	1363	dsl	800	M-CSCO U-15	800	9,500
	1364	dsl	800	M-CSCO U-15	800	9,500
	52	dsl	550	National 50	550	7,000
	53	dsl	600	M-CSCO U-15	600	9,000
	55	dsl	600	M-CSCO U-15	600	9,000
	60	dsl	800	M-CSCO U-15	800	9,500
	62	dsl	600	M-CSCO U-15	600	9,000
	65	dsl	700	M-CSCO U-36A	700	12,000
	66	dsl	700	M-CSCO U-36A	700	12,000
Min-Tex Drlg	35	dsl	500	Hyster Mod A	750	14,000
Wes-Mor Drlg	10	dsl		M-CSCO U-15		7,500
	7	dsl	680	M-CSCO U-34	680	7,500
WOOD						
Gibson Drlg	1	dsl	606	Wilson Mogul 42	398	5,000
	9	dsl	1030	Wilson Mogul 75-P	700	9,000
Guffey-Schlensker Drlg	3	dsl	1270	National 75-CA	1270	14,000
Hinton W B Drlg	9	dsl-elec	2600	National 110-UE	3000	20,000
Justiss Oil	28	dsl	700	OILWELL 96	1000	15,000
Maxwell Herring Drlg	12	dsl	1500	Wilson 150-A	2500	15,000
United Drlg Co of Tyler	9	dsl	1200	Bethlehem M-58	800	12,500
YOAKUM						
Cactus Drlg (TX)	63	dsl	520	Brewster N-4	454	6,000
Cherokee Drlg & Dev	5	dsl	900	BDW 450	531	7,000
Landis Drlg	1	dsl	1000	BDW-650-M	1000	13,000
MGF Drlg-Midland	9	dsl	850	EMSCO GC-500	850	14,000
Megargel Drlg	10	dsl	750	Unit Double Jacknife U-15	750	7,000
Norton Drlg	5	dsl	500	Wilson 75	900	10,500
Rod Ric	4	dsl	750	Ideco H-40	600	8,500/4"
YOUNG						
E & H Drlg	2	dsl	400	M-CSCO U-34	325	6,000
	5	LPG	550	Wilson Giant	550	7,500
Franklin Drlg	1	dsl	300	Gar-Den 1500	300	1,500
	2	dsl	400	Gar-Den	400	2,500
Lin-Mour Drlg	5	dsl	750	EMSCO G-42	750	7,000
Luke Grace Drlg	3	dsl	500	Cardwell Model S	450	6,400
Megargel Drlg	6	dsl	350	Bethlehem S-45-B	275	6,000
Min-Tex Drlg	26	dsl	3200	Cardwell L	350	4,000
Oilwell Drlg	4	dsl	476	Ideco H-30	476	5,500
Petra Drlg	21	dsl	300	Cooper	300	6,000
	22	dsl	450	EMSCO G-42	500	6,000
Tierra Drlg	5	dsl	500	National T-12	500	6,000
ZAPATA						
Atco Drlg Southern	50	dsl	1560	National 100-HD	1560	14,000
Dixilyn-Field Drlg	19	dsl	1925	National 130	2331	20,000
	23	dsl	2800	OILWELL 860	2331	18,000
New & Hughes Drlg	10	dsl	900	EMSCO GB-500	600	11,500
Penrod Drlg	119	dsl	1600	National 1625-M	3000	30,000
Resource Drlg	19-RD	dsl	1040	National 610	1220	12,000
	2	dsl	1560	National 80-B	1835	14,000
Robinson Bros Drlg	1	dsl	1750	Brewster N-75	1500	12,000
	7	dsl-elec	1750	National 80-UE	1500	12,000
South Texas Drlg	4	dsl	500	Brewster 1046	750	10,000
Southland Drlg	2	dsl	1300	Brewster 75-A	1150	12,000
Texas Drlg	3	dsl	1700	National 50-A	1455	12,500
	6	dsl	1200	Cabot/Franks M-25	950	11,000

UTAH

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
DUCHESNE						
Anderson-Myers Drlg	14	dsl	1500	Brewster N-75-A	1800	14,000

UTAH (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
DUCHESNE (Contd)						
Bomac Drlg	29	dsl	2000	OILWELL 96	2300	18,000
Dixilyn-Field Drlg	38	dsl	2000	National 110-UE	2000	18,000
Loffland Bros	223	dsl	1260	M-CSCO U-15	1000	9,000
TWT Expl	2	dsl	200	Gar-Den 15-W	200	2,000
	4	dsl	300	National T-10	300	4,000
	5	dsl	880	Model O Cardwell	880	10,000
	6	dsl	1350	National 55	1350	12,000
	7	dsl	1800	Gar-Den 800	1800	10,000
	8	dsl	1350	Ideco	1350	12,000
	9	dsl	1800	OILWELL 760	1800	14,000
EMERY						
True Drlg	14	dsl	1000	National 50-A	1000	12,000
GARFIELD						
Kenting Drlg	20	dsl-elec	2400	M-CSCO U-914-E	2000	20,000/5"
Loffland Bros	1	dsl	1290	M-CSCO 40	1440	13,000
GRAND						
Arapahoe Drlg	7	gas-btne	700	National T-45	700	10,000
Atco Drlg	18	dsl	326	326	320	8,000/3½"
Brinkerhoff-Signal	32	dsl	1000	EMSCO GC-350	465	8,000
	9	dsl	700	Brewster N-45	600	7,500
Cardinal Drlg	4	dsl	560	EMSCO GB-350-T	760	8,000/½"
Veco Drlg	8	dsl	800	Brewster 45	750	10,000
JUAB						
Parker Drlg	148	dsl	1200	OIME	11000	
Penrod Drlg	102	dsl	1600	National 610-M	964	16,000
	20	dsl	2600	National 1320-M	1950	25,000
MILLARD						
Penrod Drlg	23	dsl	2600	National	1950	25,000
Viersen & Cochran Drlg Co	13	dsl	1850	National 80-B	1500	18,000
RICH						
Parker Drlg	118	dsl	2000	National 100-M	2700	20,000
SAN JUAN						
All Western Drlg	3	dsl	840	EMSCO 15	840	10,000
Arapahoe Drlg	2	gas-btne	300	National T-32	320	8,000
	6	dsl	300	National T-32	350	8,000
Bayless Drlg	1	dsl	1500	Ideco H-1000	950	10,000
Kenai Drlg Rocky Mountain	3	dsl	1400	OILWELL 52-T	700	9,500
SANPETE						
Loffland Bros	98	dsl-elec	1400	M-CSCO U-40-E	1600	13,000
SUMMIT						
Anderson-Myers Drlg	7	dsl	1200	National 55	1400	13,000
Bomac Drlg	56	dsl	2600	Gar-Den 1100	2400	20,000
Brinkerhoff-Signal	3	dsl	1000	National 55	1000	12,000
	40	dsl	2400	National 130	2400	22,000
	7	dsl	1500	National 80-B	1500	15,000
	83	dsl-elec	2000	EMSCO D-3	2000	16,000
Dixilyn-Field Drlg	36	dsl	2000	National 110-UE	2000	18,000
Manning R L	30	dsl-elec	1600	EMSCO D-3	1000	16,000
	32	dsl	1600	EMSCO D-3	1000	16,000
Parker Drlg	116	dsl-elec	2000	National 80-B	2750	20,000
	117	gas	2000	National 110	2700	22,000
	183	dsl	1650	OIME 1500-P	1650	20,000
	56	dsl	1200	National 50-A	1800	11,000
Viersen & Cochran Drlg	8	dsl	1450	National 80-B	1554	18,000
UINTAH						
All Western Drlg	1	dsl	1200	Schramm		1,500
	2	gas	700	EMSCO U-15	700	10,000
	4	dsl	750	Superior 700	750	10,000
Atco Drlg	5	dsl	326	National T-32	326	8,000/3½"
Brinkerhoff-Signal	12	dsl	1000	National 55	1000	12,000
Loffland Bros	236	dsl	1260	M-CSCO U-15	1000	9,000
	58	dsl-elec	2000	National 80-B	2000	18,000
Westburne Drlg	65	dsl	450	National T-45	400	9,000
WASATCH						
Viersen & Cochran Drlg	11	dsl	2600	National 110	2400	20,000

VIRGINIA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
FREDERICK						
Delta Drlg	71	dsl	500	Spencer 7000	440	9,000
WASHINGTON						
Ray Resources	7	dsl	450	Cardwell KB-500	700	8,000

WASHINGTON

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
KITTITAS						
Brinkerhoff-Signal	53	dsl-elec	2325	National 100	2325	18,000

WEST VIRGINIA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Challenger Drlg	16-S	dsl-elec	600	EMSCO G-500	750	2,000
BRAXTON						
Union Drlg	1	dsl		Cardwell KM-250	425	6,000

WEST VIRGINIA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
CLAY						
Smith Drlg	10	dsl	3550	Challenger M-320	360	5,000/3½"
HARDY						
Delta Drlg	69	dsl		Spencer 7000	480	9,000
KANAWHA						
Ray Resources	6	dsl	450	Ideco DIR-7015	700	8,000
LINCOLN						
Hurt Clint & Assoc	2	dsl	350	Wilson Super 38	350	5,000
MC DOWELL						
Ray Resources	9	dsl	1000	Ideco H-35	400	6,500
MINERAL						
Delta Drlg	84	dsl	1800	EMSCO D-3	1560	16,000
RALEIGH						
Smith Drlg	8	dsl	350	Challenger M-2-80	360	4,500/3½"
RANDOLPH						
Ray Resources	14	dsl		National T-20	400	6,500
Union Drlg	2	dsl		Ideco BIR-5525	425	6,000
	11	dsl		Spencer 5000	350	5,000
RITCHIE						
Hurt Clint & Assoc	1	dsl	350	Wilson Super 38	350	5,000
ROANE						
FWA Drlg	13	dsl	375	Wilson Super 38	350	4,500
Hurt Clint & Assoc	4	dsl	350	Wilson Super 38	350	5,000
UPSHUR						
Union Drlg	13	dsl		Ideco BIR-5525	425	6,000
WIRT						
Ray Resources	3	dsl	450	Ideco BIR-5525	600	6,000
WOOD						
Hurt Clint & Assoc	3	dsl	350	Wilson Super 38	350	5,000

WYOMING

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Bowden Peter Drlg	21	dsl	2000	EMSCO C-1	1500	18,000
Burris Drlg	111	dsl	1000	Gar-Den 1100	1500	20,000
	112	dsl	1000	Gar-Den 1100	1500	20,000
	114	dsl	1000	Gar-Den 1100	1500	20,000
Forwest	1	dsl-el-scr	2600	Ideco E-2100	1800	22,000
	2	dsl-el-scr	2600	Ideco E-2100	1800	22,000
	5	dsl-el-scr	2000	National 80-UE	2000	15,000
	6	dsl-el-scr	2600	National 110-UE	2000	20,000
Gallagher Drlg	7	dsl	350	National T-20	475	5,000
Lord Drlg	2	dsl	2200	OILWELL M-860	1650	18,000
	3	dsl	2200	OILWELL M-860	1650	18,000
BIG HORN						
Barnhart Drlg	1	dsl	700	Ideco H-525	350	6,500
Dixilyn-Field Drlg	37	dsl	1600	National 80-UE	1800	15,000
Montgomery Drlg	44	dsl	2000	OILWELL 96	1000	20,000/5"
CAMPBELL						
Anderson-Myers Drlg	10	dsl	670	National T-32	800	8,500
Atco Drlg	20	dsl	800	EMSCO GB-500	800	10,000
Brinkerhoff-Signal	57	dsl	1560	National N-80-B	1560	17,000
Cyclone Drlg	2	dsl	800	Bethlehem M-58	800	10,000
	4	dsl	800	Unit U-15	800	9,000
	5	dsl	800	EMSCO U-15	800	10,000
Exeter Drlg Northern	10	dsl	500	Brewster N-55	750	10,500
	20	dsl	500	EMSCO GC-500	750	11,000
	21	dsl	550	M-CSCO U-15	720	9,500
	3	dsl	550	National 50-A	750	9,500
	34	dsl	500	M-CSCO U-15	750	9,500
	37	dsl	500	M-CSCO U-15	750	9,500
	38	dsl	500	M-CSCO U-15	750	9,500
	7	dsl	700	Brewster N-75	1000	12,000
	8	dsl	500	Brewster N-7	750	9,500
	9	dsl	750	Brewster N-75	1100	12,500
Green Drlg	3	dsl	1350	EMSCO GA-500	900	10,000
	4	dsl	900	Unit U-15	900	10,000
Lohmann-Johnson Drlg	4	dsl	1350	OILWELL 76-700 S/N H-27-15	600	12,000
Nicor Drlg	60	dsl	1700	National 55-M	700	15,000
	61	dsl	1400	National 610	750	12,000
Prairie Drlg	3	dsl	1000	EMSCO GB-500	1000	10,000
Republic Drlg & Serv	5	dsl-elec	1200	OILWELL 760-E	1000	14,000
Shelby Drlg	51-E	dsl-elec	1000	Ideco 725-E	750	10,000
	53-E	dsl-elec	1000	National 370-E	700	9,500
Transcontinental Drlg	53	dsl	900	National 50-A	980	9,000
	54	dsl	800	National 50-A	980	10,000
	55	dsl	1020	OILWELL 76	980	12,000
	56	dsl	1100	Ideco H-750	910	10,500
	40	dsl	1200	OILWELL 76	1224	12,500
True Drlg	15	gas-LPG	1300	National 50-A	1000	11,500
	19	dsl	1000	National 50-A	1000	12,000
Westburne Drlg	54	dsl	655	National 50-A	800	9,500
CARBON						
Atco Drlg	25	dsl	700	Ideco H-525	700	9,500
Prairie Drlg	6	dsl	1200	M-CSCO U-40	1200	14,000
CONVERSE						
Atco Drlg	12	dsl	1845	National 80-B	1845	15,000

WYOMING (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
CONVERSE (Contd)						
Brinkerhoff-Signal	14	dsl	1000	National 55	1000	12,500
Exeter Drlg Northern	18	dsl	500	National 50-A	750	9,500
	36	dsl	450	Bethlehem M-58	750	11,000
Harpel Drlg	3	dsl	1150	Ideco H-725	900	10,000
	4		1250	Brewster N-46	900	12,000
Loffland Bros	163	dsl	1260	National 80-B	1500	16,000
	208	dsl	1560	National 110	1800	16,000
	234	dsl	2160	M-CSCO U-40	2400	13,000
	40	dsl	1680	Brewster N-95	2200	16,000
Lohmann-Johnson Drlg	1	dsl	670	M-CSCO U-15 S/N 537	500	8,000
	20	dsl	700	OILWELL 600	600	10,000
Westburne Drlg	7		1000	Wilson Giant	1000	12,000
Westburne Drlg	60	dsl	650	National 50-A	700	9,000
CROOK						
Atco Drlg	6	dsl	1020	National 370	700	8,500
Exeter Drlg Northern	17	dsl	500	National 50-A	750	9,500
	35	dsl	500	M-CSCO U-15	750	9,500
FREMONT						
Barnhart Drlg	4	dsl	350	Gar-Den 15-W	350	2,000
Brown Tom	17	dsl	350	M-CSCO U-15-CA	500	8,500
	21	dsl	1100	National 75-CA	1100	13,000
Dixilyn-Field Drlg	32	dsl	2300	National 130	2331	25,000
	33	dsl-elec	2000	OILWELL 940-E	3000	20,000
Exeter Drlg Northern	41	dsl	1000	Gar-Den 700	1000	13,000
Loffland Bros	119	dsl-elec	4200	EMSCO CE-3000 Type 2	3000	32,000
	8	dsl	2100	M-CSCO U-914-C	2400	20,000
Manning R L	26	gas-btne	1300	EMSCO GB-800	1365	14,000
Parker Drlg	124	dsl	2000	OILWELL 2000-E	2750	25,000
Prairie Drlg	5	dsl	1000	EMSCO GB-500	1000	10,000
Trigg Drlg	6	dsl-elec	2400	EMSCO	2400	25,000
Westburne Drlg	69	dsl	1800	National 1320	1950	22,000
GILLETTE						
GCO Drlg	7	dsl	1750	National 75-CA	1500	13,000
GOSHEN						
True Drlg	18	dsl	350	EMSCO GB-250-T	350	6,500
HOT SPRINGS						
Anderson-Myers Drlg	4	dsl	1400	EMSCO GA-500	1200	11,000
Barnhart Drlg	3	dsl	600	Ideco H-35	350	5,500
Manning R L	16	gas-btne	675	National T-32	458	6,500
	24	dsl	860	Brewster N-75	860	11,000
JOHNSON						
Manning R L	6	dsl	1290	EMSCO GB-800	1290	14,000
Shelby Drlg	54-E	dsl-elec	1000	National 370-F	2000	20,000
LINCOLN						
Bomac Drlg	24	dsl	2600	National 100	2400	20,000
Brinkerhoff-Signal	8	NGB	900	M-CSCO U-40	900	11,000
Exeter Drlg Northern	28	dsl	1200	Gar-Den 800	1200	15,000
Loffland Bros	108	dsl	2160	Brewster N-12-A	2400	25,000
	30	dsl-elec	2160	M-CSCO 914-EC	2200	20,000
	60	dsl-elec	1800	M-CSCO U-712-A	2000	17,000
Manning R L	33	dsl-elec	1800	EMSCO C-1	1500	19,500/5"
Noble Drlg	132	dsl-elec	3300	National 1320-UE	3300	25,000
Parker Drlg	112	dsl	2700	Ideco 3000	2700	30,000
	163	dsl	1650	OIME 1500-P	1650	20,000
Roden J B Drlg	1	dsl	636	EMSCO GB-350	640	8,500
	3	dsl	1575	OIME 1500-SL	1575	19,000
Simmons Drlg	36	dsl	350	Hycalog HH-600	350	6,800
True Drlg	16	gas-LPG	1300	National 50-A	1000	11,000
	20	dsl	2100	National 125	2100	20,000
Westburne Drlg	56	dsl	750	EMSCO GC-500	950	12,000
NATRONA						
Dixilyn-Field Drlg	31	dsl-elec	2300	National 1320-UE	5000	25,000
	34	dsl-elec	3200	National 1320-UE	2500	25,000
Exeter Drlg Northern	39	dsl	500	M-CSCO U-15	750	9,500
Prairie Drlg	1	dsl	500	Ideco H-35	300	6,500
	2	dsl	450	EMSCO GB-160-T	300	5,000
Westburne Drlg	58	dsl	310	National T-32	275	7,000
NIOBRARA						
Harpel Drlg	5	dsl	1250	Brewster N-42	700	8,500
PARK						
Anderson-Myers Drlg	1	dsl	680	National T-32	450	7,000
Barnhart Drlg	2	dsl	600	National T-20	350	5,000
Manning R L	17	gas-btne	875	EMSCO GC-500	910	11,000
	28	gas-btne	800	EMSCO GB-350	488	7,500
Penrod Drlg	115	dsl	1600	National 1625-ME	3000	30,000
Roden J B Drlg	6		750	National CA-75	750	12,000
Wyoming Well Serv	21	dsl	500	Ideco H-35	318	5,000
	24	dsl	13000	Cardwell 200-A	318	4,500
	30	dsl	13000	Cardwell 200-A	318	4,500
SHERIDAN						
Parker Drlg	177	dsl	1300	OIME SL-1000-P	1300	15,000
SUBLETTE						
Anderson-Myers Drlg	3	dsl	1280	EMSCO GA-500	1200	11,000
Helmerich & Payne Intl Drlg	81	scr	2200	National 110-UE	1500	20,000
Loffland Bros	325	dsl	2160	Gar-Den 2100	2400	25,000
	97	dsl-elec	3300	M-CSCO U-1220-EB	3300	25,000

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
WYOMING						
SUBLETTE (Contd)						
Montgomery Drlg	31	dsl	2000	National 110-UE	2700	18,000
	32	dsl-elec	2700	National 110-UE	2000	18,000
Norton Drlg	6	dsl	550	Wilson 75	950	12,000
Roden J B Drlg	5	dsl	650	EMSCO GB-350	650	10,500
Viersen & Cochran Drlg	9	dsl	2150	National 110	2400	20,000
SWEETWATER						
Anderson-Myers Drlg	17	dsl	2300	National 110	2325	22,000
Atco Drlg	56	dsl-elec	1800	National 80-UE	1800	15,000
Brinkerhoff-Signal	26	dsl	1170	National 55	1170	10,500
Exeter Drlg Northern	11	dsl	700	Gar-Den 700	1000	12,500
Manning R L	20	dsl	1341	EMSCO J-1000	1341	14,000
	22	dsl	900	EMSCO A-550	1100	11,000
	29	dsl	800	EMSCO GB-500	860	9,000
	7	gas-btne	885	EMSCO G-500	756	8,500
Montgomery Drlg	48	dsl	2000	National 110	2000	20,000/5"
Pool Well Serv	66	dsl	300	Cabot/Franks 500	6000	5,500
Transcontinental Drlg	57	dsl	1400	Bethlehem M-810	1224	13,500
True Drlg	9	dsl	1200	M-CSCO U-40	1200	15,000
Viersen & Cochran Drlg	7	dsl	1700	M-CSCO U-712-A	1554	18,000
TETON						
Brinkerhoff-Signal	72	dsl	2000	National 1320-UE	2000	25,000
Rosamond Drlg	8	dsl	23250	National 130	2475	25,000
UINTA						
Anderson-Myers Drlg	12	dsl	2000		1500	17,000
Bomac Drlg	44	dsl	2000	Gar-Den 800	1800	16,000
Brinkerhoff-Signal	6	dsl	1500	Gar-Den 1100	1500	18,000
	73	dsl	1500	National 80-B	1500	15,000
Exeter Drlg Northern	24	dsl	1000	M-CSCO U-20	1500	15,000
	29	dsl	1200	Gar-Den 800	1200	15,000
	31	dsl	1000	Gar-Den 800	1500	15,000
Loffland Bros	184	dsl	2160	M-CSCO U-712-A	2400	15,000
WYOMING (Cont'd)						
UINTA (Contd)						
Loffland Bros	214	dsl	1860	M-CSCO U-40	1600	13,000
Lord Drlg	1	dsl	2200	OILWELL M-860	1650	18,000
Manning R L	21	dsl	1365	National 80-B	1365	15,000
	25	dsl	1180	Brewster N-75	1180	11,500
	31	dsl-elec	1550	EMSCO D-2	700	11,000
Noble Drlg	E-1101	dsl	2130	EMSCO A-1100	2130	18,000
	N-116	dsl	3000	National 110-UE	3000	20,000
Norton Drlg	8	dsl	550	Wilson 75	950	12,000
	171	dsl	4650	OIME 1500-P	1650	20,000
	173	dsl	1650	OIME 1500-P	1650	20,000
Transcontinental Drlg	41	dsl	2450	Gar-Den GD-1100	2742	18,000
Viersen & Cochran Drlg	14	dsl	2300	EMSCO 800-A	1554	18,000
Westburne Drlg	51	dsl	850	National Ideal 55	1050	12,500
WASHAKIE						
Anderson-Myers Drlg	11	dsl	1700	National 55	1200	13,000
	2	dsl	1600	National 55	1200	12,000
	9	dsl	1500	National 55	1200	12,000
Bomac Drlg	28	dsl	930	EMSCO G-500	930	10,500
Exeter Drlg Northern	19	dsl	700	Gar-Den 800	1100	14,000
	30	dsl	750	EMSCO D-2	1000	12,500
Manning R L	8	dsl	850	EMSCO GA-500	894	9,000
WESTON						
Atco Drlg	27	dsl	720	Bethlehem C-50	720	8,500
Cyclone Drlg	1	dsl	400	EMSCO GB-250	600	7,500
Exeter Drlg Northern	33	dsl	500	M-CSCO U-15	750	9,500
Farnsworth & Kaiser Drlg	1	dsl	900	M-CSCO U-15	900	8,000
	3	dsl	330	Joy 300	330	4,000
	6	dsl	450	M-CSCO U-34	450	6,500
Green Drlg	5	dsl	900	Unit Rig U-15	950	10,000
L & R Drlg	4		400	Cabot/Franks Rocket	195	3,000
Simmons Drlg	41	dsl	350	Hycalog HH-6000	350	6,800

Canadian Rotary Land Drilling Contractors

ADECO DRLG & ENGR CO LTD 505 Second St SW Calgary Alberta T2P 1N8 Canada 403-266-6291
ARGUS DRLG-DIV TARO INDS 1580-540 Fifth Ave SW Calgary Alberta T2P 0M3 Canada 403-264-3043
ARROWHEAD DRLG LTD 710 999 Eighth St SW Calgary Alberta T2R 1J5 Canada 403-245-2817
ATCO DRLG INC 1001-500 Fourth SW Calgary Alberta T2P 2V6 Canada 403-263-1215
BADGER DRLG LTD 1180 700 Fourth Ave SW Calgary Alberta T2P 3S4 Canada 403-269-8534
BALTIC DRLG LTD 901-7015 MacLeod Trail SW Calgary Alberta T2H 2K6 Canada 403-259-5213
BAWDEN PETER SERV LTD 2750 400 Fourth Ave SW Calgary Alberta T2P 1G7 Canada 403-265-1511
BEAVER DRLG LTD 1117 Sun Oil Bldg 500 Fourth Ave Calgary Alberta T2P 2V6 Canada 403-265-6472
BIRD DRLG 800 Lancaster Bldg Calgary Alberta T2P 1C2 Canada 403-264-1512
BLOCKER CANADA LTD 304 Sixth Ave SW Calgary Alberta T2P 0R4 Canada 403-233-0866
BOW ISLAND DRLG 700-800 Sixth Ave SW Calgary Alberta T2P 0T8 Canada 403-264-5413
BOW VALLEY INDUSTRIES LTD Box 6620 Postal Sta D 630 Sixth Ave SW Calgary Alberta T2P 2V8 Canada 403-231-1211
CACTUS DRLG LTD P O Box 1508 Calgary Alberta T2P 2L6 Canada 403-263-5670
CANTEX DRLG & EXPL LTD 1520 Royal Bank Bldg 335 Eighth Ave S Calgary Alberta T2P 1C9 Canada 403-265-8441
CAPRI DRLG LTD 314-540 Twelfth Ave SW Calgary Alberta Canada 403-261-5991
CENTENNIAL DRLG LTD 424 Tenth St NW Calgary Alberta T2N 1V9 Canada
CHALLENGER DRLG 220-444 Seventh Ave SW Calgary Alberta T2P 0X8 Canada 403-269-3121
CHALLENGER DRLG Box 5710 Station "L" Edmonton Alberta T6C 4G2 Canada 403-955-7788
CORUNNA PETR LTD P O Box 640 Corunna Ontario N0N 1G0 Canada 519-[illegible]-5505
GARNETT DRLG LTD 814-603 Seventh Ave SW Calgary Alberta T2P 2T5 Canada 403-262-7906
GOODLANDS DRLG LTD 203 Centurion Plaza 10335 172 St Edmonton Alberta T5S 1K9 Canada 403-483-3302
GUTHRIE MC LAREN DRLG LTD 14630 119th Ave Edmonton Alberta T5L 2P2 Canada 403-455-3191
HI TOWER DRLG Box 6650 Station D Calgary Alberta T2P 2V8 Canada 403-231-1211
JADE DRLG LTD 9816 B-44 Ave Edmonton Alberta T6E 5E5 Canada 403-437-2930
JOMAX DRLG LTD 9411 37 Ave Edmonton Alberta Canada T6E 5N4 Canada 403-265-5312
KENTING DRLG CO LTD 370 700 Sixth Ave SW Calgary Alberta T2P 0T8 Canada 403-263-2980
KISSINGER PETR LTD 540 Fifth Ave SW Suite 1420 Calgary Alberta T2P 0M2 Canada 403-265-2705
LACOMBE DRLG LTD 500 Fourth Ave SW Suite 1501 Calgary Alberta T2P 2V6 Canada 403-261-2040
LAREDO DRLG LTD 702 500 Fourth Ave SW Calgary Alberta T2P 2V6 Canada 403-262-0218
LEMKCO DRLG CO LTD 6767 Golden West Ave Red Deer Alberta T4P 1A7 Canada 403-342-4200
LOFFLAND BROS CO P O Box 2847 Tulsa OK 74101 918-622-9330
MONTGOMERY DRLG CANADA LTD 960-700 Fourth Ave SW Calgary Alberta T2P 3J4 Canada 403-232-1644
MUSTANG DRLG 1426 500 Fourth Ave SW Calgary Alberta T2P 2V6 Canada 403-263-8520
NABORS DRLG LTD 324 Eighth Ave SW 1107 Home Oil Tower Suite 1107 TD Square Calgary Alberta T2P 2Z2 Canada 403-263-6610
NUGGET DRLG LTD 8755 51 Ave Edmonton Alberta Canada 403-468-2133
PARKER DRLG CO 8 E Third St Tulsa OK 74103 918-585-8221
PRECISION DRLG LTD Suite 1204 500 Fourth Ave SW Calgary Alberta T2P 2V6 Canada 403-164-4882
RED ARROW DRLG LTD 520 304 Eighth Ave SW Calgary Alberta T2P 1C2 Canada 403-264-0695
REGENT DRLG LTD 12912 125th Ave Edmonton Alberta T5L 3C1 Canada 403-455-2121
ROCKY MOUNTAIN DRLG LTD 10333 Southfort Rd SW 415 Calgary Alberta T2W 3Y7 Canada 403-259-6767
S & T DRLG LTD 5825 98 St Edmonton Alberta T6E 3L4 Canada 403-437-1640
SARCEE DRLG DIV ATCO DRLG LTD 700-800 Sixth Ave SW Calgary Alberta T2P 2V6 Canada 403-263-5040
SHELBY DRLG LTD 2830 Security Life Bldg Denver CO 80202 303-629-7035
SIMMONS DRLG LTD 524-550 Sixth Ave SW Calgary Alberta Canada T2P 0S2 403-263-7686
THREE HUNDRED DRLG LTD 507 630 Eighth Ave SW Calgary Alberta T2P 1G6 Canada 403-266-1089
TRI CITY DRLG LTD 14305 120 Ave Edmonton Alberta T5L 2R8 Canada 403-453-3771
WESTBURNE DRLG CANADA LTD 200 535 Seventh Ave SW Calgary Alberta T2B 0Y4 Canada 403-233-6600
WORLDWIDE DRLG DIV 500 Fifth Ave SW Chevron Plaza Suite 300 Calgary Alberta T2P 3L5 Canada 403-261-5661

Canadian Contract Rotary Land Drilling Rigs

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
ALBERTA						
UNDESIGNATED						
Adeco Drlg & Engr	9	dsl	2000	OIME Helihoist 1500	2000	17,000
Atco Drlg	1	dsl	325	Ideco H-35-D	278	6,500
	10	dsl	400	Brewster N-45	400	7,500
	11	dsl	1500	National 55 Hercules	1500	11,500
ALBERTA (Cont'd)						
UNDESIGNATED (Contd)						
Atco Drlg	12	dsl	1950	National 80-B Hercules	1950	14,000
	14	dsl-elec	2200	National 1320 Hercules	2200	20,000
	16	dsl	500	EMSCO GA-350	556	7,500
	17	dsl	600	OILWELL 66	800	9,500

ALBERTA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED (Contd)						
Atco Drlg	18	dsl	278	National T-32	278	6,500
	19	dsl	500	OILWELL 66	556	9,500
	20	dsl	650	EMSCO GA-500	652	9,500
	25	dsl	370	EMSCO GA-350	556	7,500
	3	dsl	500	National T-45	680	8,500
	4	dsl	1200	National 55 Hercules	1200	11,500
	5	dsl	325	National T-32	278	6,500
	59	dsl	1800	National 80-UE	1800	15,000
	6	dsl	526	Brewster N-45	556	8,000
	7	dsl	720	Ideco Super 750	720	10,500
	8	dsl	650	Ideco H-525	652	8,500
	9	dsl	400	National T-20	400	5,000
Baltic Drlg	1	dsl	870	Superior 700	600	9,000
	10	dsl	940	Superior 700	600	9,500
	14	dsl	800	National 50-AM	550	9,500
	24	dsl	300	National T-20	326	6,500/4"
	3	dsl	1000	Superior 700	600	9,500
	34	dsl	800	EMSCO GC-350	550	8,500
	4	dsl	1000	Superior 700	600	9,500
Bawden Peter Drlg Serv	1	dsl	1000	EMSCO GB-500	500	8,500
	14	dsl-scr	2600	National 1320-UE	2000	22,000
	16	dsl	1800	EMSCO D-3	1000	12,000
	17	dsl	850	Gar-Den 500	500	9,000
	18	dsl	2300	National 110-M	1500	16,000
	20	dsl	1000	Gar-Den 500	500	9,000
	25	dsl-scr	2000	EMSCO C-I Type II	1500	18,000
	33	dsl	1850	OILWELL 860	1400	18,000
	8	dsl-elec	2200	OILWELL 860	1400	20,000
Beaver Drlg	1	dsl	300	National T-32	300	7,000
	2	dsl	300	National T-20	300	6,000
	3	dsl	300	National T-20	300	6,000
	4	dsl	300	National T-32	300	7,000
	5	dsl	300	National T-32	300	7,500
	6	dsl	300	National 370	550	8,500
	7	dsl	550	National 370	550	9,500
	8	dsl	300	National T-32	300	7,000
	9	dsl	550	National 370	550	9,500
Blocker Canada	1	dsl	2000	OIME 1500-SL	1500	18,000
	10	dsl	1000	OIME 5-D3	770	10,000
	2	dsl	2000	OIME 1000-SL	1500	16,000
	3	dsl	1500	OIME 750-SL	1155	12,000
	4	dsl	1500	OIME 750-SL	1155	12,000
	5	dsl	1550	Brewster N-75	1425	12,000
	7	dsl	1500	OIME 750-SL	1155	12,000
	8	dsl	1600	OIME 750-SL	1155	12,000
	9	dsl	1600	OIME 750-SL	1155	12,000
Bow Valley Inds	71	dsl	240	Failing 2500	175	3,000
	77	dsl	320	Failing 2500	240	3,000
	79	dsl	300	Gar-Den 3000	240	4,000
	80	dsl	375	Shaffer	350	6,000
	81	dsl	375	Superior 400	318	5,000
	82		375	Superior 300	263	4,500
	83	dsl	300	Cardwell 150-A	280	
	84	dsl	300	Superior 300	290	4,500
	85		300	Superior 300	290	4,500
	86	dsl	300	Kremco K-600-D	350	4,500
	87	dsl	300	Cardwell Model L	350	4,500
	88	dsl	350	Cardwell S-350	350	5,500
	89	dsl	330	Ideco H-30-D	330	4,000
	90	dsl	300	M-CSCO U-34-D	330	5,500
	91	dsl	330	EMSCO GB-250	360	6,500
	92	dsl	300	Cardwell S-350	240	4,500
	93	dsl	300	Cardwell AT-150 Double Drum	200	3,500
	94	dsl	300	Cardwell Model L	280	4,500
	95	dsl	300	Cardwell AT-150 Double Drum	200	3,500
	96	dsl	300	Ideco H-25 Double Drum	240	4,500
	97	dsl	300	National T-32	300	6,500
	98	dsl	330	National T-20	330	6,000
	99	dsl	330	EMSCO GA-250	300	6,500
Can-Tex Drlg & Expl	10	dsl	400	Cardwell J-450	450	7,000
	5	dsl	1200	EMSCO GB-800	12000	12,000
	6	dsl	1400	EMSCO GB-80083	1275	14,000
	7	dsl	900	EMSCO G-50052	900	10,000
	8	dsl	820	OILWELL 66	820	9,000
Capri Drlg	1	dsl	300	Ideco H-25	330	6,000
	2	dsl	300	Ideco H-25	330	6,000
	3	dsl	300	Ideco H-25-D	330	6,500
	5	dsl	700	National T-32	700	8,500
	6	dsl	850	National 50-A	1365	10,000
	7	dsl	200	TSM-3000	250	3,000
Centennial Drlg	1	dsl	300	National T-12	300	4,500
	2	dsl	300	EMSCO 250	300	5,000
	3	dsl	300	National T-32	300	7,000
Garnett Drlg	10	dsl	1400	National 610	900	11,000
	3	dsl	900	Cardwell J-700	900	11,000
	5	dsl	900	Brewster N-55	900	11,000
	6	dsl	1100	M-CSCO U-40	900	11,000
	7	dsl	1600	National 610	1200	12,000
	9	dsl	1200	Brewster N-7	900	11,000
Hi Tower Drlg	1	dsl-elec	2800	National 1320-UE	1400	20,000

ALBERTA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED (Contd)						
Hi Tower Drlg	10	dsl	1200	OILWELL 76	1200	12,000
	16	dsl	1220	M-CSCO U-40	1220	12,500
	17	dsl	650	National 50-A	340	7,000
	2	dsl	900	OILWELL 66	600	8,500
	20	dsl-elec		760	2400	2,400
	3	dsl	1020	OILWELL 66	1020	10,000
	4	dsl-elec	3400	OILWELL E-2000	2000	20,000
	7	dsl	1000	OILWELL 66	1000	10,000
Jade Drlg	1	dsl	230	Wilson Super 38	185	3,500
	2	dsl	230	Wilson Super 38	185	3,500
	3	dsl	380	Ideco H-25	380	5,900
	4	dsl	500	Ideco H-25	430	7,000
Jomax Drlg	1	dsl	800	OILWELL 52-T	455	2,750
	2	dsl	300	OILWELL 52-T	455	2,600
	4	dsl	1200	OILWELL 76-700A	1275	4,300
	5	dsl	875	National JI-65	875	10,500
	6	dsl-elec	2400	OILWELL 760	1600	5,000
	7	dsl-elec	2400	OILWELL 760	1600	5,000
Kissinger Petr Corp	1	dsl	500	Cardwell J-450	500	7,000
	1	dsl	318	Cardwell J-450	318	6,500
	3	dsl	100	National T-8	220	2,500
	4	dsl	300	National T-12	300	4,500
Lacombe Drlg	80	dsl	1800	National 80-B	1500	15,000
Laredo Drlg	1	dsl	300	Mac-300	300	2,000
	2	dsl	300	Mac-300	300	2,000
	3	dsl	300	National T-8	1500	1,000
	4	dsl	300	Mac-300	300	2,000
	5	dsl	300	Mac-300	300	2,000
	6	dsl	300	Mac-300	300	2,000
Loffland Bros	171	gas	2132	M-CSCO U-014-B	1700	18,000
	198	dsl	1400	M-CSCO U-914-A	1599	15,000
	221	dsl	2880	M-CSCO U-1220-AE	3200	25,000
	36	dsl	2000	M-CSCO U-914-C	2880	20,000
	89	dsl-elec	2100	M-CSCO U-1220-EB	2400	25,000
	93	dsl-elec	2100	M-CSCO U-1220-EB	2400	25,000
Montgomery Drlg Canada	42	dsl-elec	2000	National 110-UE	2000	20,000
	46	dsl-elec	2000	National 1320-UE	2000	20,000/5"
	49	dsl-elec	2000	National 110-E	2000	20,000
Mustang Drlg	10	dsl	652	Brewster N-45	326	8,500
	11	dsl	1200	National 55	1200	12,000
	14-UE	dsl-elec	3000	National 1320-UE	3000	22,000
	16-UE	dsl-elec	2745	National 110-UE	2745	2,000
	17-E	dsl-elec	1600	National	1600	12,000
	2	dsl	1845	National 80-B	1845	15,000
	6	dsl	1230	EMSCO A-550	1230	12,000
	9-UE	dsl-elec	2745	National 110-UE	2745	20,000
Nabors Drlg	10	dsl	970	National 50-A	770	10,000
	11	dsl	1070	National 50-CA	770	8,500
	12	dsl	1200	OILWELL 66	884	11,000
	14-E	dsl-elec	1714	EMSCO D-3	2925	15,000
	15	dsl	1200	EMSCO A-550	884	11,000
	16	dsl	2000	EMSCO A-800	1740	15,000/5"
	19-E	dsl-elec	2000	EMSCO C-I	3900	20,000/5"
	2	dsl	1195	OILWELL 76	1326	12,000
	20	dsl	2000	National 110	3480	20,000/5"
	23-E	dsl-elec	1600	EMSCO D-2	1800	14,000
	24-E	dsl-elec	2000	EMSCO Electro-hoist 2-C	2925	14,000
	3	dsl	1700	OILWELL 76	1326	14,000
	4	dsl	2000	OILWELL 76	1740	14,000
	7	dsl	1200	National 55	770	11,000
Parker Drlg	98	dsl	1500	National 100	1950	17,000
Precision Drlg	1	dsl	350	Ideco H-30-FD Super	350	6,500
	10	dsl	350	Ideco H-35-D	350	7,200
	11	dsl	350	Ideco H-40-PD	350	7,200
	12	dsl	500	Ideco H-35-D	350	7,200
	14	dsl	350	Ideco H-40	500	7,200
	15	dsl	350	Ideco H-30-FD	350	7,200
	2	dsl	350	Ideco H-20-AD	350	4,500
	3	dsl	350	Ideco H-30 Super 2-FD	350	6,500
	4	dsl	350	Ideco H-35-D	350	7,200
	5	dsl	350	Ideco H-525-D	350	7,500
	6	dsl	350	National T-20	350	5,500
	7	dsl	350	Ideco H-35-D	500	7,000
	8	dsl	350	Ideco H-30-D	350	5,500
	9	dsl	350	Ideco H-35-D	350	7,200
Red Arrow Drlg	1	dsl	225	National T-20	275	6,000
	10	dsl	225	RAD 200	275	1,850
	11		225	RAD 200	275	6,000
	12	dsl	225	RAD 200		1,850
	2	dsl	225	National T-12	275	5,000
	3	dsl	225	National T-20	275	6,000
	4	dsl	225	National T-20	275	6,000
	5	dsl	225	National T-20	275	6,000
	6	dsl	225	RAD 200	275	6,000
	7	dsl	225	RAD 200	275	6,000
	8	dsl	225	RAD 200	275	6,000
	9		225	RAD 200	275	6,000
Sarcee Drlg	1	dsl	300	Ideco HD-25	230	5,000
	10	dsl	300	Ideco H-30-F	259	5,500
	11	dsl	350	Ideco H-30-F	259	5,500
	12	dsl	350	Ideco H-35	259	7,500
	14	dsl	360	Ideco H-35-D	350	7,500

ALBERTA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED (Contd)						
Sarcee Drlg	2	dsl	300	Brewster N-4	224	5,500
	3	dsl	300	National T-20	224	5,500
	4	dsl	300	National T-20	224	5,500
	5	dsl	300	Brewster N-4	224	5,500
	6	dsl	300	Ideco H-30-AD	230	5,500
	8	dsl	250	National T-12	230	5,000
	9	dsl	250	National T-20	230	5,500
Simmons Drlg	11	scr-elec	350	Hycalog HH-6000	350	6,500
	12	dsl-elec	1200	Gar-Den 500-E	700	9,000
	15	dsl	350	EMSCO U-34	350	600
	7	dsl	350	Hycalog HH-6000	350	6,800
	8	dsl	350	Hycalog HH-600	350	6,800
ALDER FLATS						
S & T Drlg	4	dsl	600	National 50-CA	400	8,000
ALEXANDER						
Adeco Drlg & Engr	1	dsl	308	National T-20	320	1,680
BAPTISTE						
Westburne Drlg Canada	37	dsl	350	Gar-Den 2500	170	3,500
BASELINE						
Adeco Drlg & Engr	8	dsl	1500	National 100-M	2340	18,000
BEAVERLODGE						
Arrowhead Drlg	C-10	dsl	1560	National 80-B	1560	15,000
	C-9	dsl	1040	National 610	1040	12,000
BISTCHO						
Adeco Drlg & Engr	18	dsl	700	OIME Helihoist 500-C	1370	23,000
BONNYVILLE						
Tri-City Drlg	6	dsl	250	Failing 2500	210	3,000
Worldwide Drlg	1	dsl	456	Failing 2500	304	3,000/3½"
BOW ISLAND						
Cactus Drlg	8	dsl	350	M-CSCO U-34	350	6,500
BRAGG CREEK						
Challenger Drlg	50	dsl	2000	National 110	2385	19,000
BRAZEAU RIVER						
Mustang Drlg	18-UE		1800	National 80-UE	1000	14,000
Regent Drlg	25	dsl	1400	Brewster N-75	1400	14,000
	28	dsl	1400	Brewster N-75	1400	14,000
BROOKS						
Shelby Drlg	3	dsl	360	Cabot/Franks Rocket III	450	6,000
	5	dsl	360	Cooper 42x12 550 Oiler	450	6,500
	7	dsl	360	Cooper 32-32	225	3,000
BUFFALO						
Westburne Drlg Canada	38	dsl	310	Failing 2500	160	3,000
CADOTTE						
Challenger Drlg	11	dsl	350	National T-20	456	7,500
CAROLINE						
Kenting Drlg	23	dsl-elec	2000	National 610-E	1000	11,500
	27	dsl	1040	National 610	1040	11,500
	29	dsl	1040	National 610	1040	11,500
Mustang Drlg	15-E	dsl-elec	1600		1600	12,000
Regent Drlg	14-E	dsl	2800	OILWELL 840-E	1800	20,000
CARROT CREEK						
Adeco Drlg & Engr	15	dsl	365	National T-45	575	10,500
CLARESHOLM						
Nugget Drlg	5	dsl	2000	National 55-M	2000	12,000
CLAYHURST						
Westburne Drlg Canada	22	dsl	1010	National 50-A	700	8,500
CONSORT						
Bow Island Drlg	10	dsl	278	Walker-Neer 2000	278	3,000/3½"
CREEK						
Adeco Drlg & Engr	2	dsl	380	OIME SD-3	365	8,500
CROSSFIELD						
S & T Drlg	5	dsl	1200	National 50-A	800	9,500
	7	dsl	1200	National T-45	800	9,500
CZAR						
Tri-City Drlg	2	dsl	300	M-CSCO U-34	3000	6,000
DRUMHELLER						
Cactus Drlg	3	dsl	350	M-CSCO U-34	350	6,500
EDGERTON						
Bow Island Drlg	1	dsl	278	Walker-Neer 2000	278	3,000/3½"
EDMONTON						
Adeco Drlg & Engr	5	dsl	2000	OIME Split Level 1500	2000	17,000
Arrowhead Drlg	C-7	dsl	1040	National 610	1040	12,000
Badger Drlg	5	dsl		National 370	700	8,500
Guthrie McLaren Drlg	5	dsl	375	National 50-CA	400	8,500
	7	dsl	300	National T-32	300	7,000/3½"
	8	dsl	300	Failing 2500-A	225	3,000
Three Hundred Drlg	Mr Nelson	dsl	900	National 370-M	900	9,500

ALBERTA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
EDSON						
Arrowhead Drlg	C-11	dsl	1560	National 80-B	1560	15,000
Cactus Drlg	1	dsl	750	Brewster N-55	750	8,500
	7	dsl	700	EMSCO GB-350	700	8,500
Challenger Drlg	55	dsl	1180	National 100-HD	1470	16,500
Guthrie McLaren Drlg	4	dsl	375	Dreco D-500	450	6,000
Rocky Mountain Drlg	1	dsl	650	National 370	650	8,500
S & T Drlg	3	dsl	1200	National 55	1200	11,500
Shelby Drlg	8	dsl	1200	OIME 750-SL	1200	14,000
ELMWORTH						
Mustang Drlg	8-E	dsl-elec	1600	National 610-E	1600	12,000
ENTWISTLE						
Guthrie McLaren Drlg	11	dsl	450	Dreco 500	450	7,000
FALHER						
Guthrie McLaren Drlg	10	dsl	300	Superior D-500	450	7,000/3½"
FAWCETT						
Westburne Drlg Canada	15	dsl	900	Brewster N-7	600	8,500
FOX CREEK						
Challenger Drlg	5-E	dsl-elec	1220	National 55	1830	12,500
Kenting Drlg	11	dsl	1200	M-CSCO U-40	1200	14,000
	18	dsl	800	National 50-A	800	9,500/5"
Regent Drlg	10	dsl	780	Brewster N-7	560	9,500
	22	dsl	560	M-CSCO U-36-A	500	8,500
FT MC LEOD						
Regent Drlg	23	dsl	840	Brewster N-7	560	9,500
GOODWIN						
Challenger Drlg	45	dsl	2050	National 100-HD	2925	18,000/5"
GORDONDALE						
Cactus Drlg	21	dsl	900	EMSCO GC-500	900	11,500
GRANDE PRAIRIE						
Arrowhead Drlg	C-5	dsl	1560	National 80-B	1560	15,000
Blocker Canada	6	dsl	1550	OIME 1000-SL	1500	16,000
Cactus Drlg	17	dsl	500	Unit 34	500	6,500
Challenger Drlg	6-E	dsl-elec	1500	National 80-E	2250	14,500/5"
	8-E	dsl-elec	1500	National 80-E	2250	14,500/5"
	JB-9E	scr-elec		National 80-UE	2600	15,000/5"
Kenting Drlg	7	dsl	720	EMSCO GC-500	720	10,500
	15	dsl	720	National 370	720	8,000
	24	dsl	350	National 370	350	9,000
Nugget Drlg	1	dsl	1500	National 610	1000	12,000
	6	dsl	1000	National 55-M	1000	12,000
	7	dsl	1000	National 610	1000	12,000
Regent Drlg	16-E	dsl	2700	Gar-Den 800-E	1000	14,000
	17-E	dsl	2700	Gar-Den	1000	14,000
Three Hundred Drlg	Mr Gary	dsl	1200	Superior 700	785	9,500
Westburne Drlg Canada	24	dsl	360	National T-32	360	7,000
	28	dsl	960	National 55	960	11,000
HANNA						
Cactus Drlg	4	dsl	350	M-CSCO U-34	350	6,500
Guthrie McLaren Drlg	12	dsl	325	Superior S-400	300	5,000
Jade Drlg	5	dsl	500	Ideco H-30	420	7,000
Shelby Drlg	2	dsl	360	Cooper 42-12 300 Oiler	350	5,500
HARMATTAN						
Kenting Drlg	9	dsl	720	National T-32	720	7,500
HIGH PRAIRIE						
Regent Drlg	5	dsl	840	Brewster N-7	560	9,500
HINTON						
Kenting Drlg	3	dsl	1000	EMSCO GC-500	1000	12,000
	4	dsl	720	610	720	11,500
Regent Drlg	15-E	dsl	3200	Gar-Den 1500	2000	21,000
Rocky Mountain Drlg	3	dsl	1650	National 80	1650	15,000
S & T Drlg	11	dsl	1300	Unit 20	1300	12,000
Westburne Drlg Canada	1	dsl	1560	National 80-B	1560	13,000
HUGHENDEN						
Tri-City Drlg	3	dsl	250	Failing 2500	200	3,000
HUNTER VALLEY						
Regent Drlg	11	dsl	2200	OILWELL 840-E	2592	20,000
INDUS						
Badger Drlg	2	dsl	400	National 370	500	7,200
INNISFAIL						
Argus Drlg Div Taro Inds	7	dsl	320	National T-32	327	8,000
KAKWA						
Kenting Drlg	14	dsl	1500	National 80-B	1500	14,500/5"
Mustang Drlg	3	dsl	726	National T-45	620	9,000
KILLAM						
Westburne Drlg Canada	50	dsl	240	Failing 2500	180	3,000
LACOMBE						
Cactus Drlg	10	dsl	700	National T-32	700	7,800
Three Hundred Drlg	Mr Nick	dsl	1200	Superior 700	785	9,500
LAMONT						
Goodlands Drlg	1	dsl	350	Failing Strat 100	350	5,000

ALBERTA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
LAMONT (Contd)						
Tri-City Drlg	8	dsl	300	Failing 3500	280	3,500/3½"
LEDUC						
Adeco Drlg & Engr	12	dsl	312	National T-32	320	2,200
LEGAL						
Westburne Drlg Canada	42	dsl	360	National T-20	360	5,500
LINDBURGH						
Westburne Drlg Canada	33	dsl	310	Failing 3500	160	3,500
LLOYDMINSTER						
Guthrie McLaren Drlg	6	dsl	3000	Failing 2500-A	225	3,000/3½"
Kenting Drlg	35	dsl	350	National T-12	330	5,000
Tri-City Drlg	4	dsl	300	Failing Stratmaster 90	280	5,000/3½"
Westburne Drlg Canada	39	dsl	310	Failing 3500	235	3,500
LODGEPOLE						
Guthrie McLaren Drlg	9	dsl	1940	OIME 1500	1940	18,000/5"
MANNING						
Challenger Drlg	44	dsl	1300	National 80-B	1950	15,000/5"
MEDICINE HAT						
Bow Island Drlg	3	dsl	278	Walker-Neer 2000	278	3,000/3½"
	8	dsl	278	Walker-Neer 2000		3,000/3½"
Westburne Drlg Canada	35	dsl	310	Failing 2500	160	3,000
MINBURN						
Bow Island Drlg	2	dsl	278	Walker-Neer 2000	278	3,000/3½"
MUSKEG						
Challenger Drlg	51	dsl	1630	National 110	1980	19,000/5"
MUSKEG RIVER						
Westburne Drlg Canada	3	dsl	1560	OILWELL 860	1560	18,000
NANTON						
Arrowhead Drlg	C-8	dsl	1040	National 610	1040	12,000
Kenting Drlg	32	dsl-elec	3720	National 110-UE	2000	16,000
NISKU						
Bow Island Drlg	11	dsl-elec	300	Walker-Neer	1287	5,000
Kenting Drlg	16	dsl	350	M-CSCO U-34	350	6,500
	5	dsl	350	National T-20	350	5,500
OKOTOKS						
Arrowhead Drlg	C-4	dsl	1040	National 610	1040	12,000
Mustang Drlg	4	dsl	1200	National 55	1200	12,000
OYEN						
Westburne Drlg Canada	34	dsl	360	Ideco HD-25	360	4,500
PEACE RIVER						
Westburne Drlg Canada	13	dsl	600	EMSCO GA-350	600	8,000
PEERS						
Westburne Drlg Canada	10	dsl	1275	National 80	1275	13,000
PEMBINA						
Badger Drlg	4	dsl	400	Superior 400	400	5,500
Bawden Peter Drlg Serv	21	dsl	2000	EMSCO C-1	1500	18,000/5"
Kenting Drlg	22	dsl-elec	2000	National 80-UE	1000	13,000
S & T Drlg	10	dsl	350	Unit 34	350	6,000
PINCHER CREEK						
Regent Drlg	9	dsl	1400	Brewster N-75	1400	14,000
PONOKA						
Cactus Drlg	14	dsl	750	EMSCO GB-500	750	8,000
Regent Drlg	29	dsl	300	Brewster N-4	365	6,000
RAINBOW LAKE						
Badger Drlg	3	dsl		Kremco 1000	900	11,000
RED DEER						
Adeco Drlg & Engr	3	dsl	308	National T-32	320	1,985
Argus Drlg Div Taro Inds	3	dsl	320	M-CSCO U-34	319	6,000
RIMBEY						
Argus Drlg Div Taro Inds	1	dsl	320	National T-32	327	7,000
ROCKY MOUNTAIN HOUSE						
Cactus Drlg	15	dsl	750	EMSCO GC-350	750	6,500
	26-E	dsl-elec	2700	EMSCO D-3	500	18,000
	5	dsl	1554	Ideco Super 711	1554	15,000
Challenger Drlg	10-E	scr-elec	2600	Unit 1220-EB	2800	22,000
SCHULER						
Westburne Drlg Canada	40	dsl	310	Failing 2500	175	3,000
SEXSMITH						
Cactus Drlg	24	dsl	300	Bethlehem 55	300	6,000
SLAVE LAKE						
Regent Drlg	1	dsl	320	Ideco H-40	280	7,500
Westburne Drlg Canada	8	dsl	360	Ideco H-40-D	360	7,000
SMOKY LAKE						
Bow Island Drlg	9	dsl	278	Walker-Neer 2000	278	3,000/3½"
Tri-City Drlg	7	dsl	250	Failing 2500	210	3,000
SPIRIT RIVER						
Regent Drlg	27	dsl	560	Brewster N-4	280	6,500
SPRUCE VIEW						
Arrowhead Drlg	C-6	dsl	770	National 370	770	9,000

ALBERTA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
STETTLER						
Argus Drlg Div Taro Inds	2	dsl	320	EMSCO 250-T	327	6,500
STURGEON LAKE						
Adeco Drlg & Engr	14	dsl	312	National T-32	320	7,200
SUFFIELD						
Bow Island Drlg	6	dsl	278	Walker-Neer 2000	278	3,000/3½"
	7	dsl	278	Walker-Neer 2000	278	3,000/3½"
SUNDRE						
Cactus Drlg	2	dsl	940	National 55	940	11,500
	25-E	dsl-elec	3400	EMSCO C-2	2000	20,000
Regent Drlg	21	dsl	2200	OILWELL M-2000	2592	20,000
TABER						
Cactus Drlg	16	dsl	500	Unit 34	500	6,500
	9	dsl	350	M-CSCO U-34	350	6,500
Shelby Drlg	1	dsl	360	Cooper TC 42x12	365	5,500
THREE HILLS						
S & T Drlg	2	dsl	350	National T-32	350	7,000
TINDISTOLL						
Adeco Drlg & Engr	16	dsl	308	National T-32	312	7,000
TWO HILLS						
Tri-City Drlg	1	dsl	250	Failing 2500	200	3,000
VALHALLA						
Kenting Drlg	28	dsl	700	National 370	700	9,000
VALLEYVIEW						
Argus Drlg Div Taro Inds	5	dsl	1100	OILWELL 76	1326	11,800
Cactus Drlg	6	dsl	900	Cardwell A0	900	9,500
Guthrie McLaren Drlg	2	dsl	300	Brewster N-4	300	6,500
Rocky Mountain Drlg	2	dsl	1150	Gar-Den 500	700	8,500
VEGREVILLE						
Badger Drlg	1	dsl	300	Ideco H-30	250	5,000
VERMILION						
Tri-City Drlg	5	dsl	250	Failing 2500	210	3,000
VIRGINIA HILLS						
Regent Drlg	24	dsl	840	Brewster N-7	560	9,500
VULEAN						
Cactus Drlg	11	dsl	350	M-CSCO	350	6,500
WAINWRIGHT						
Tri-City Drlg	9	dsl	300	Dreco 300	300	4,500
WATERTON						
Regent Drlg	8	dsl	1800	Gar-Den 1100	2100	15,000
WETASKIWIN						
Argus Drlg Div Taro Inds	4	dsl	320	M-CSCO U-34	319	6,000
WILDWOOD						
Rocky Mountain Drlg	4	dsl	1050	Unit U-36-A	1050	10,000
WILLESDEN GREEN						
Adeco Drlg & Engr	17		690	OIME S/L 750	1035	12,000
Kenting Drlg	33	dsl-elec	1000	Superior 700-E	700	9,000
WORSLEY						
Challenger Drlg	15	dsl	800	Ideco Sup 7-11	1500	12,500
	4-E	dsl-elec	1170	National T-45	1005	9,000

BRITISH COLUMBIA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Baltic Drlg	12	dsl	525	National T-32	326	7,500
	2	dsl	1600	National 80-B	1850	15,000
	25	dsl	475	National T-20	326	6,500/4"
Garnett Drlg	8	dsl	300	OILWELL 52-T	400	6,000/4"
Hi Tower Drlg	11	dsl	700	M-CSCO U-34	350	6,000
	12	dsl	570	National T-32	310	6,000
	14	dsl	370	OILWELL 52-T	280	6,500
	15	dsl	580	National T-32	310	6,000
	18	dsl-elec	2400	OILWELL 760	2400	15,000
	19	dsl	580	OILWELL 52-T	350	6,500
	9	dsl	880	National 50-A	600	8,500
Jomax Drlg	3	dsl	800	OILWELL 52-T	450	2,600
Loffland Bros	3	dsl	1850	M-CSCO U-914-A	2880	18,000
	72	dsl	1700	M-CSCO U-914	2880	18,000
	9	dsl	2000	M-CSCO U-914	1980	20,000
Montgomery Drlg Canada	43	scr	2000	National 110-UE	2000	20,000
Nabors Drlg	21-E	dsl-elec	3200	EMSCO II-C	3900	20,000/5"
	5	dsl	700	OILWELL 76	1326	12,000
	6	dsl	300	Ideco H-35	300	6,000
	8	dsl	740	EMSCO GA-500	770	8,500
	9	dsl	2250	National 110	2400	18,000/5"
Parker Drlg	122-HH/11	dsl	1500	OIME TBA-1500	1700	17,000
	94	dsl	1700	National 100-M	1500	18,000
BIRCH ISLAND						
Westburne Drlg Canada	26	dsl	360	National T-32	360	7,000
BOUNDARY LAKE						
S & T Drlg	9	dsl	800	National 370	800	8,500
CHETWYND						
Arrowhead Drlg	C-2	dsl	770	National 370	770	9,000

BRITISH COLUMBIA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
CHETWYND (Contd)						
Challenger Drlg	1	dsl	1200	EMSCO GC-500	1300	12,500
Mustang Drlg	7-UE	dsl-elec	2400	National 80-UE	2400	15,000
FERNIE						
Challenger Drlg	22	dsl	1630	National 110	1980	19,000/5"
FORT NELSON						
Regent Drlg	2	dsl	840	Brewster N-55	560	9,500
	3	dsl	840	Brewster N-7	560	9,500
FORT ST JOHN						
Challenger Drlg	2	dsl	650	National T-45	608	9,000
	39	dsl	350	National T-20	456	5,750
Kenting Drlg	1	dsl	1500	National 80-B	1500	14,500/5"
Regent Drlg	26	dsl	280	Ideco H-40	280	7,500
	30	dsl	280	Brewster N-4	280	6,500
Three Hundred Drlg	Mr Digger	dsl	900	National 370-M	900	9,500
Westburne Drlg Canada	14	dsl	1080	National 50-A	1080	9,500
	17	dsl	1080	EMSCO GB-350	720	8,000
	4	dsl	1040	EMSCO GC-500	1040	11,000
GAYLORD						
Adeco Drlg & Engr	6	dsl	1500	National 100-M	2340	18,000
KAHNTAH						
Kenting Drlg	10	dsl	720	OILWELL 66	720	10,000
MOBERLY						
Mustang Drlg	5	dsl	946	National T-45	620	9,000
PROPHET RIVER						
Regent Drlg	4	dsl	840	Brewster N-7	560	9,500
THIENDER MOUNTAIN						
Regent Drlg	12-E	dsl	2200	Gar-Den 1500	2592	20,000
WHITCOURT						
Nugget Drlg	8	dsl	1100	National T-45	600	10,000

MANITOBA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
WINNIPEG						
Goodlands Drlg	2	dsl	200	Futros	300	4,000

NORTHWEST TERRITORIES

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Adeco Drlg & Engr	4	dsl	1380	OIME Helihoist 1500	2000	17,000

NORTHWEST TERRITORIES (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Parker Drlg	99-HH/6	dsl	1500	OIME Helihoist 1500	1700	17,000
HAY RIVER						
Mustang Drlg	12	dsl	1845	National 80-B	1845	14,000

ONTARIO

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
LAMBTON						
Corunna Petr	2	dsl	475	Ideco 525	636	8,500
	3	dsl	950	Hooper GXXTA	700	5,500

QUEBEC

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
GASPE						
Regent Drlg	6	dsl	1400	Brewster N-75		

SASKATCHEWAN

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
UNDESIGNATED						
Bird Drlg	1	dsl	350	Ideco	350	6,500
	6	dsl	350	EMSCO 250	500	7,000
Bow Island Drlg	17	dsl	278	National T-12	278	5,000
	18	dsl	278	Unit U-34	278	5,000
Capri Drlg	4	dsl	250	National T-12	330	4,000
Sarcee Drlg	7	dsl	250	Unit U-34	230	5,000
Simmons Drlg	14	dsl	575	Troy M-500	535	7,500
	2	dsl	350	OILWELL 52-T	350	6,500
	4	dsl	350	OILWELL 52-1	350	6,000
ASSINIBOIA						
Three Hundred Drlg	Mr Jim	dsl	1200	National 370-M	900	9,500
CATHKIN						
Bow Island Drlg	12	dsl-elec	300	Cabot/Franks 1287	450	5,000
CLARESHOLM						
Mustang Drlg	1	dsl	930	Unit 36-A	800	8,500
LASHBURN						
Bow Island Drlg	4	dsl	278	Walker-Neer 2000	278	3,000/3½"
	5	dsl	3000	Walker-Neer 2000	278	/3½"
MARSDEN						
Westburne Drlg Canada	32	dsl	300	Failing 2500	210	3,000
WILBERT						
Westburne Drlg Canada	31	dsl	160	Failing 2500	275	3,000

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Petroleum Engineer INTERNATIONAL

International Contract Rotary Land Drilling Rigs

AFRICA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
ALGERIA						
Parker Drlg	129-HH/17	dsl	1500	OIME TBA-2000	1700	20,000
	133-HH/21	dsl	1500	OIME TBA-2000	1700	20,000
	140-HH/28	dsl	1500	OIME TBA-2000	1700	20,000
	144-HH/30	dsl	1500	OIME TBA-2000	1700	20,000
	145-HH/31	dsl	1500	OIME TBA-2000	1700	20,000
	146-HH/32	dsl	1500	OIME TBA-2000	1700	20,000
	155-HH/26	dsl	1500	OIME TBA-2000	1700	20,000
	156-HH/36	dsl	1500	OIME TBA-2000	15000	
	160	dsl	1500	OIME TBA-2000	1700	20,000
SAIPEM	5891	dsl-elec	3200	National 110-DE	1500	20,000
	5892	dsl-elec	3200	National 110-DE	1500	20,000
	5893	dsl-elec	3200	National 110-DE	1500	20,000
	5894	dsl-elec	3200	National 110-DE	1500	20,000
	5895	dsl-elec	3200	National 110-DE	1500	20,000
Westburne Intl Drlg	206	dsl-elec	3975	A-800-E	1500	18,000
	207	dsl-elec	3975	National 110-UE	1500	18,000
	208	dsl-elec	3975	EMSCO C-1-11	1500	18,000
	209	dsl-elec	3975	EMSCO C-1-11	1500	18,000
CONGO						
Forasol	Natl 110-9	dsl-elec	2600	National 110-DE	1500	16,000
EGYPT						
Egyptian Drlg	1	dsl		National 110-UE		16,000/5"
	2	dsl		Cabot/Franks SD-2346		12,000
FOREX-Neptune	N-110/7	dsl	3200	National 110	1600	19,000/5"
Santa Fe Drlg	64	dsl	1800	National 110	1800	16,000
	69	dsl-elec	2000	National 1320-DE	3400	20,000
	73	dsl	2000	National 110	1800	16,000
	97	dsl-elec	2800	OILWELL E-2000	2000	20,000
GABON						
Forasol	H525-[illegible]	dsl-elec	1600	Ideco H-525	800	8,000
	H525-[illegible]	dsl-elec	1600	Ideco H-525	800	8,000
	Natl 110-5	dsl-elec	2600	National 110-DE	1500	16,000
	1	dsl	1200	National 80-B	1850	12,000
	5	dsl-elec	2600	National 110-UE	1850	15,000
FOREX-Neptune	S-7-11/22	dsl	2600	Ideco Super 7-11	1200	18,000
LIBYA						
Arab Drlg & Workover	ADWOC-2	dsl-elec	2600	EMSCO C-111	1500	20,000
	ADWOC-3	dsl-elec	2600	EMSCO C-111	1500	20,000
	118	dsl	1250	Ideco H-525	700	9,000
	37	dsl	1550	National 80-B	1800	12,000
	53	dsl	1250	Ideco H-525	700	9,000
	54	dsl	1400	National 80-B	1800	12,000
Challenger Drlg	19	dsl	1400	National 80-B	1500	15,000
Deutsche Tiefbohr	T-16	dsl	2000	EMSCO A-800	1000	12,000
	T-26	dsl	2550	Ideco Super 7/11	1500	16,000
FOREX-Neptune	DS-1	dsl	1300	Ideco H-525	640	9,000
	GD-1100/5	dsl-elec	3200	Gar-Den 1110-E	1600	18,000
	N-110/6	dsl	2600	National 110	1600	19,000/5"
	N-80-UE/2	dsl	2000	National 80-UE	1000	15,700
	N-80-3	dsl-elec	2000	National 80-UE	1000	15,700
	S-7-11/13	dsl	2500	Ideco Super 7-11	1200	18,000
	S-7-11/2	dsl	2600	Ideco Super 7-11	1600	18,000
	S-7-11/24	dsl	3200	Ideco Super 7-11	1600	18,000
	S-7-11/8	dsl	3200	Ideco Super 7-11	1200	18,000
International Drlg SA	18	dsl	1455	National 80-B	1455	12,000
	19	dsl	1200	National 55-P	1700	9,000
	21	dsl	1200	National 55-P	1700	9,000
	23	dsl	1455	National 80-B	1455	12,000
	8	dsl	2000	National 110	2250	13,000
KCA Drlg	100	dsl	320	Cardwell KM-250	320	3,000
	101	dsl	300	Franks Sahara	320	3,000
	102	dsl	320	Franks Sahara	320	3,000
	103	dsl	320	Franks Sahara	320	2,000
	83	dsl-elec	1000	M-CSCO U-36-EA	1000	10,000
Loffland Bros	168	dsl	2300	M-CSCO U-914	2300	16,000
Oil Drlg & Expl	7	dsl	2000	Ideco Super 7-11	2000	17,000
	9	dsl	2000	Ideco Super 7-11	2000	17,000
Pool Intairdril	10	dsl	318	Cabot/Franks 1058/120	318	5,000
	2	dsl	318	Cabot/Franks 1287/120	476	5,000
	204	scr	2000	Ideco ED-1200	1000	12,000
	205	dsl	2000	Ideco ED-1200	1000	12,000
	206	scr	2000	Ideco ED-1200	1000	12,000
	22	dsl	400	Ideco DIR-550	400	6,500
	3	dsl	318	Cabot/Franks 1287/120	476	5,000
	32	dsl	600	Cabot/Franks 750	600	6,500
	33	dsl	600	Cabot/Franks 750	600	6,500
	34	dsl	600	Cabot/Franks 750	600	6,500
	5	dsl	318	Cabot/Franks 1058/120	318	5,000
Santa Fe Drlg	ADWOC 1	dsl-elec	2600	EMSCO C-111	1500	20,000

AFRICA(Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
MALI						
FOREX-Neptune	49	dsl-elec	3200	Gar-Den 1100-E	1500	18,000
MOROCCO						
Forasol	3	dsl-elec	3200	National 1320-UE	2000	20,000
NIGERIA						
FOREX-Neptune	GD-2100/3	dsl-elec	3200	Gar-Den 2100-RE	3000	25,400
	GD-2100/4	dsl-elec	3200	Gar-Den 2100-RE	3000	25,400
	GD-2100/5	dsl-elec	3200	Gar-Den	3000	25,400
	H-20	dsl	225	Ideco H-20	180	3,600
	H-525/4	dsl	550	Ideco H-525	500	9,000
	N-110-11	dsl-elec	3200	National 110-UE	1500	19,000
	N-110/10	dsl	2600	National 100	1600	19,000
	N-110/4	dsl	2850	National 110	1600	19,000/5"
	N-110/5	dsl	2600	National 110/5	1600	19,000
	S-7-11/19	dsl	2600	Ideco Super 7-11	1200	18,000
	S-7-11/26	dsl	2600	Ideco Super 7-11	1200	18,000
Sedco Intl SA	59	dsl	2800	OILWELL 860	2200	16,000
SAIPEM	5838	dsl	2500	Ideco P Super 7-11	1590	16,500
	5847	dsl	2130	Ideco P Super 7-11	1375	16,500
	5850	dsl	1135	Ideco P H-40	432	4,800
	5860	dsl	2500	Ideco P Super 7-11	1590	16,500
SOMALIA						
Parker Drlg	143	dsl	2000	National 110	2300	20,000
SUDAN						
Parker Drlg	105-HH/2	dsl	1200	OIME	1275	14,000
	119-HH/10	dsl	1500	OIME	1700	18,000
TUNISIA						
Forasol	Natl 110-2	dsl-elec	1700	National 110-DE	1500	16,000
	Natl 110-7	dsl-elec	2600	National 110-DE	1500	16,000
	2	dsl	2700	National 110	1850	15,000
	7	dsl-elec	2600	National 110-UE	1850	15,000
FOREX-Neptune	GD-1100/6	dsl-elec	3200	Gar-Den	1600	18,000
Sedco Intl SA	93	dsl	1700	National 80-B	3300	12,000
SAIPEM	5842	dsl	2250	Ideco P Super 7-11	1740	16,500
	5846	dsl	2250	Ideco P Super 7-11	1740	16,500
ZAIRE						
Parker Drlg	197-HH/43	dsl	2000	OIME TBA-2000	2000	20,000

ASIA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
BANGLADESH						
Parker Drlg	194-HH/41	dsl	2000	OIME TBA-2000	2000	20,000

AUSTRALIA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
AUSTRALIA						
Oil Drlg & Expl	12	dsl	1000	National 50		
	15	dsl	2000	Ideco H-1700	2000	17,000
	16	dsl	1600	Ideco 1200	1600	14,000
	5	dsl	1100	Ideco Jr Super 7-11	1100	1,300
	6	dsl	1200	National 55	850	10,000
	8	dsl	350	Ideco H-35	500	4,500
Pool Intairdril	11	dsl	235	Gar-Den 1000	235	1,000
	14	dsl	100	Schramm	200	1,000
	18	dsl	110	Schramm T-64-HB	275	
	216	dsl		Wilson Super 38		3,400
	218	dsl		Ideco H-44	750	8,500
	8	dsl	300	Gar-Den 15-W	300	1,500
	9	dsl	420	Cabot/Franks Expl 1058-160	420	5,000
Westburne Drlg Canada	19	dsl	870	National T-32	360	7,500
QUEENSLAND						
Richter Drlg Pty	1	dsl	336	Sullivan 300-A	171	3,500
	2	dsl	900	National 55	900	10,000
	7	dsl-elec	1600	National 610	750	10,000
SOUTH AUSTRALIA						
Richter Drlg Pty	10	dsl-elec	1500	National 110-UE	1500	17,000
	3	dsl	600	National T-32	300	5,500
WESTERN AUSTRALIA						
Richter Drlg Pty	4	dsl	600	National T-32	300	6,000
	9	dsl	2400	National 80-B	1600	12,000

CENTRAL AMERICA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
COSTA RICA						
Foramines	4	dsl	850	Ideco H-525	700	25,000
EL SALVADOR						
Foramines	2	dsl	650	EMSCO GB-250	500	28,000
	5	dsl	450	Cooper TD-420-10	350	18,000
GUATEMALA						
Bowden Drlg Intl	5	dsl	2000	National 110-M	1500	18,000

CENTRAL AMERICA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
GUATEMALA (Contd)						
FOREX-Neptune	GD-1500/3	dsl-elec	3200	Gar-Den	2000	21,700
	H-525/9	dsl	1300	Ideco H-525	500	9,000
Helmerich & Payne (Guatemala)	16	dsl-elec	2600	HS-1500	1500	18,000
	45	dsl-el-scr	3000	National 1320	2000	25,000
Parker Drlg	185-HH/40	dsl	2000	OIME TBA-2000	2000	20,000

EUROPE

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
BELGIUM						
Foramines	1	dsl	1200	EMSCO GB-800	800	36,000
	3	dsl	850	Salzgitter FB-415	740	27,000
	9	dsl	140	Salzgitter PS-150	160	400
DENMARK						
Deutsche Tiefbohr	T-14	dsl	2400	EMSCO A-800	1000	14,000
	T-36	dsl	1650	Ideco BIR-800	950	8,000
ENGLAND						
Houlder Marine Drlg	1	dsl-elec	1600	National 80-UE	1000	12,000
FRANCE						
COSIFOR	E-350	dsl	1500	EMSCO 350	550	9,000
	G-10-E	dsl-elec	1600	National 610-E	800	12,000
	N-110	dsl	2500	National 110	1500	18,000
Foramines	8	dsl	250	Foramines RC-15	320	1,000
	GD-2100-1	dsl-elec	3200	Gar-Den 2100-DE	2100	20,000
	H-35	dsl	800	Ideco H-35	350	5,000
	Ideco 900-1	dsl-elec	1600	Ideco 900	1000	12,000
	Natl 110-6	dsl-elec	2600	National 110-DE	1500	16,000
	Natl 1320-1	dsl-elec	3200	National 1320-DE	2000	20,000
	Natl 1625-3	dsl-elec	3200	National 1625-DE	3000	25,000
	Natl 80-B-1	dsl-elec	2000	National	1000	12,000
	1	dsl-elec	500	Ideco H-35	300	5,000
	1	dsl-elec	2600	Gar-Den 2100	2000	20,000
	1	dsl-elec	1200	Ideco H-525	800	9,000
	1	dsl		Ideco H-25	200	5,000
	2	dsl	500	EMSCO 160	250	4,000
	3	dsl-elec	3600	National 1625-DE	2400	20,000
	6	dsl-elec	2600	National 110-UE	1850	15,000
FOREX-Neptune	GC-500/1	dsl	1600	EMSCO GC-500	500	10,800
	1100/1	dsl-elec	2900	EMSCO 1100-DE	1500	18,000
	800/2	dsl	2000	EMSCO A-800	800	12,000
	GD-1100/3	dsl-elec	3200	Gar-Den 1100	1500	18,000
	H-25/2	dsl	1200	Ideco H-25	250	4,400
	H-40/2	dsl	900	Ideco H-40	500	9,000
	H-525/3	dsl	1250	Ideco H-525	500	9,000
	N-55/29	dsl	310	National 55	700	10,800
	S-7-11/20	dsl	2850	Ideco Super 7-11	1200	18,000/5"
	S-7-11/23	dsl	3200	Ideco Super 7-11	1200	18,000
GERMANY						
Deutsche Tiefbohr	T-2	dsl	490	Ideco H-525-D	620	6,000
ITAG-CELLE	ZA-312	dsl	500	SMG	250	4,500
	1	dsl	500	Wilson Mogul 42	600	9,500
	110-M	dsl	2600	National 110-M	1500	18,000
	2	dsl	1350	Wilson Mogul 42	250	8,000
	5	dsl	1600	Wilson Mogul 42	700	10,500
Preussag Aktiengesellschaft	GH-25	dsl	2600	Wirthco GH-25	1500	16,000
	GH-35	dsl	2600	DeMag GH-35	1500	17,500
	ZA-292	dsl	500	Salzgitter	180	5,000
	1	dsl	1100	Cabot/Franks Model 2346	900	10,000
	2	dsl	1500	Cabot/Franks Model 2346	900	10,000
HOLLAND						
Kenting	21	dsl-elec	1000	National 80-UE	2000	15,000/5"
ICELAND						
Orkustofnun State Drlg Conrs	DOFRI	dsl	1350	OILWELL 52-T	320	7,300
	GLAUMUR	dsl	290	Failing 2000	290	3,700/2⅞"
	JOTUNN	dsl-elec	1500	Gar-Den 700-E	750	145
	NARFI	dsl	580	Failing 3000	290	6,000/3½"
	YMIR	dsl	180	Mayhew 1000	180	1,800/2⅜"
ITALY						
Forasol	80-B-2	dsl-elec	2600	National	1000	12,000
	80-B-3	dsl-elec	2600	National	1000	12,000
	80-B-4	dsl-elec	2600	National	1000	12,000
	2	dsl-elec	1600	National 80-UE	1000	12,000
	3	dsl-elec	2600	National 80-UE	1000	12,000
Panterra Ltd	211	scr	1300	Ideco 1700	2000	17,000
	212	scr	1300	Ideco 1200	1000	12,500
SAIPEM	5803	dsl	1400	Ideco H-7-11	885	11,400
	5806	dsl	440	Cardwell 02	590	8,100
	5836	dsl	2600	Ideco P 1350-S	1950	20,000
	5840	dsl-elec	2600	Ideco H-1700	1700	16,500
	5852	dsl-elec	880	Ideco E-525	625	6,000
	5856	dsl	1700	Ideco P Jr Super 7-11	1740	12,600
	5858	dsl	1135	Ideco P H-40	432	4,800
	5864	dsl-elec	2900	EMSCO C-3 Type 2 Pot	3000	25,000

EUROPE (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
ITALY (Contd)						
SAIPEM	5872	dsl-elec	2600	National 16	3000	25,000
	5888	dsl-elec	3200	National 1625	3000	25,000
	5889	dsl	3200	Ideco E-3000	3000	30,000
	5898	dsl-elec	2600	Ideco HE-1700	1700	16,500
	5899	dsl	1400	Cardwell 03	1050	10,400
	6944	dsl	109	Ideco P H-30	295	3,590
NETHERLANDS						
Deutsche Tiefbohr	T-11	dsl	1700	National 80-B	1000	13,000
	T-19	dsl	2000	National 80-BE	1000	13,000
	T-27	dsl-elec	2600	National 130	1625	16,000
	T-30	dsl-elec	1000	Ideco E-725-D	600	6,000
	T-32	dsl	380	Ideco BIR-3085 H-35-KD	300	3,000
	T-4	dsl	500	Ideco H-30	425	6,000
PORTUGAL						
Foramines	6	dsl	280	Failing 2500	240	1,000
	7	dsl	350	Ideco H-25	350	15,000
SPAIN						
Boldon Drlg	80	dsl-elec	800	National 80-UE	1000	14,000
Compania Gen De Sondeos SA	G-450	dsl	1050	EMSCO G-450	450	10,000
	110	dsl	3000	National T-2029	1700	19,700
	800	dsl	2400	Gar-Den	1470	14,800
Forasol	110-8	dsl-elec	2600	National 110-DE	1500	16,000
	1320-2	dsl-elec	3200	National 1320-DE	2000	20,000
	1625-2	dsl-elec	3200	National 1625-DE	3000	25,000
	1	dsl-elec	3200	National 1320-UE	2000	20,000
	2	dsl-elec	3200	National 1625-DE	2000	20,000
	2	dsl-elec	3200	National 1320-UE	2000	20,000
	8	dsl-elec	2600	National 110-UE	1850	15,000
UNITED KINGDOM						
Boldon Drlg	21	dsl	370	National T-20	290	4,500
	22	dsl	590	National T-20	335	5,500
	23	dsl	350	National T-20	280	4,000
	32	dsl	590	National T-32	500	7,000
Kenting	12	dsl	350	Brewster N-45	350	8,000
	17	dsl	350	Stratmaster 90	350	5,000/3½"
	19	dsl	350	Gar-Den 3000	230	4,500/4"
	26	dsl	350	Cardwell TR-69	350	6,000
	31	dsl-elec	2000	National 110-UE	1000	14,000
KCA Drlg	104	dsl		Franks 550	320	5,000
WEST GERMANY						
Deutsche Tiefbohr	T-1	dsl	490	Ideco BIR-800 H-1000	910	8,000
	T-12	dsl	490	Ideco H-525-D	620	6,000
	T-29	dsl-elec	2300	National 1320-ME	2000	18,000
	T-3	dsl	490	Ideco H-44-CD	590	5,000
	T-5	dsl	490	Ideco H-525-D	620	6,000
	T-7	dsl	1400	National 55	700	11,000
	T-8	dsl	490	Ideco PIR-800 H-1000	910	8,000
	T-9	dsl	490	Ideco BIR-800 H-1000	910	8,000

MEXICO

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
GUADALAJARA						
Constructora Y Per Latina SA	PC-5	dsl		B Erie 36 LD-53	150	1,700
	PR-12	dsl		Failing 2500	160	2,500
	PR-20	dsl		Failing 2500	160	2,500
	PR-9	dsl	165	Failing 1500	134	1,500
HIDALGO						
Constructora Y Per Latina SA	PT-17	dsl	1020	EMSCO GA-500	500	6,500
	PT-18	dsl	1020	EMSCO GB-500	500	6,500
MEXICO						
Constructora Y Per Latina SA	GT-33	dsl	1000	EMSCO GB-800	1000	12,000
	GT-34	dsl	1000	EMSCO GB-800	1000	12,000
	PC-20	dsl		B Erie 36 LD-53	150	1,700
	PC-25	dsl		Walker-Neer FWN-40	80	1,700
	PC-26	dsl		Walker-Neer FWN-40	80	1,700
	PC-27	dsl		Walker-Neer FWN-40	80	1,700
	PC-29	dsl		Walker-Neer FWN-40	80	1,700
	PC-3	dsl		Walker-Neer S-32-SP	110	1,700
	PC-30	dsl		Stenvic AS-5		300
	PP-1	dsl		Walker-Neer WS-31	80	1,700
	PP-2	dsl		Walker-Neer S-32-SP	125	1,700
	PP-4	dsl		Walker-Neer S-32-SP	110	1,700
	PR-10	dsl		Failing 1500	180	1,500
	PR-11	dsl		Failing 2500	160	2,500
	PR-13	dsl		Failing 2500	160	2,500
	PR-21	dsl		Failing 2500	160	2,500
	PR-7	dsl	308	Failing 1500	150	1,500
	PS-14	dsl	308	EMSCO 250 Perlasa	250	3,000
	PS-15	dsl	308	Wagner-Morehouse M-41-AZ	180	3,000

MEXICO (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
MEXICO (Contd)						
Constructora Y Per Latina SA	PS-31	dsl	308	Wagner-Morehouse M-4[illegible]-AZ	180	3,000
	PT-19	dsl	1100	EMSCO J-750	750	9,500
Perforadora Mexico SA	Reforma	dsl-elec	5000	National 1625-DE	3000	25,000
	Revolucion	dsl-elec	5000	National 1625-DE	3000	25,000
	8	dsl-elec	2000	National 1320-UE	2000	2,600
PUEBLA						
Constructora Y Per Latina SA	PC-28	dsl		Walker-Neer FWN-40	80	1,700
	PR-32	dsl		Failing 2500	160	2,500
Perforadora Mexico SA	7	dsl-elec	2000	National 1320-UE	2000	2,600

MIDDLE EAST

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
ABU DHABI						
FOREX-Neptune	GD-1100/2	dsl-elec	3200	Gar-Den 1100	1500	18,000
	GD-1100/4	dsl-elec	3200	Gar-Den 1100	1500	18,000
	N-80-4	dsl-elec	2000	National 80-UE	1000	15,700
Geoprosco Intl	35	dsl	375	Cardwell K-250-M	475	6,000
	36	dsl	600	Ideco H-900	725	10,000
	39	dsl		Ideco H-30	475	7,000/3½"
	40	dsl		Ideco H-30	475	7,000/3½"
	41	dsl	2200	Ideco H-900	1100	10,000
	42	dsl-elec	700	Ideco ED-900	1000	10,000
	43	dsl0elec	700	Ideco ED-900	1000	10,000
National Drlg	1	dsl-elec	3000	OILWELL E-840	1500	17,500
	2	dsl-elec	3000	OILWELL E-840	1500	17,500
Pool Intairdril	213	scr	900	Ideco 900	1000	10,500
	214	scr	900	Ideco 900	1000	10,500
	215	scr	900	Ideco 900	1000	10,500
SAIPEM	5827	dsl-elec	3200	Ideco I	2000	20,000
	5828	dsl-elec	3200	Ideco E-2100	2000	20,000
	5887	dsl-elec	3200	National 1625	3000	25,000
Westburne Intl Drlg	210	dsl-elec	5300	National 3120-UE	1500	20,000
	212	dsl-elec	5300	National 110-UE	1500	18,000
	213	dsl-elec	5300	National 110-UE	1500	18,000
IRAN						
SAIPEM	5837	dsl	2600	Ideco P-1350-S	1950	20,000
IRAQ						
FOREX-Neptune	GD-2100/21	dsl-elec	3200	Gar-Den	2300	25,400
SAIPEM	5843	dsl-elec	2800	OILWELL E-2000	2000	20,000
	5848	dsl	2600	Ideco P Super 7-11	1740	16,500
	5849	dsl	2600	Ideco P Super 7-11	2100	16,500
	5855	dsl	1800	Ideco P Jr Super 7-11	1740	12,600
	5863	dsl-elec	3200	National 110-DE	1500	20,000
	5870	dsl-elec	3200	National 1625	3000	25,000
Westburne Drlg	214	dsl-elec	2900	National 110-UE	1500	18,000
KUWAIT						
FOREX-Neptune	GD-2100/22	dsl-elec	3200	Gar-Den 2100	2300	25,400
	S-7-11/15	dsl-elec	3200	Ideco Super 7-11	1200	18,000
	KDC-5	dsl-elec	1700	Gar-Den 800-E	800	12,000
	KDC-7	dsl-elec	1700	Gar-Den 800-E	800	12,000
Kuwait Drlg	KDG-6	dsl-elec	5100	OILWELL E-3000	3000	30,000
Parker Drlg	189	dsl-elec	3200	OIME 3000-E	3000	30,000
Santa Fe Drlg	KDC-8	dsl-elec	1400	OILWELL E-2000	2000	20,000
	KDC-9	dsl-elec	1400	OILWELL E-2000	2000	20,000
OMAN						
Deutsche Tiefbohr	T-33	dsl	1600	National 55	700	11,000
	T-34	dsl	1650	Ideco BIR-800	950	8,000
	T-17	dsl-elec	2700	National 1320	1800	18,000
	T-18	dsl	2600	National 55	700	11,000
FOREX-Neptune	Junior 1200	dsl	1800	Ideco Junior 1200	1400	11,500
Pool Intairdril	27	dsl	600	Cabot/Franks 750	650	7,500
Sedco Intl SA	92	dsl	2000	OILWELL 760	1000	12,000
	94	dsl-elec	2100	National 80-B	1100	12,000
	95	dsl-elec	2800	National 1320-UE	4950	20,000
	96	dsl	2000	OILWELL 860	2200	16,000
PAKISTAN						
Deutsche Tiefbohr	T-10	dsl	2700	National 80-B	1000	13,000
QATAR						
Deutsche Tiefbohr	T-6	dsl	490	Ideco BIR-800 H-1000	910	8,000
Santa Fe Drlg	89	dsl-elec	2000	National 110-UE	1800	16,000
	93	dsl-elec	1700	National 80-UE	700	12,000
SAUDI ARABIA						
International Drlg SA	37	dsl-elec	2000	Ideco ED-1200	1200	13,000
Pool Arabia	128	dsl	230	Cabot/Franks Expl III	450	6,500
	138	dsl	450	Cabot/Franks	450	6,500
	15	dsl	420	Ideco DIR-550	420	6,500
	190	dsl	550	Pool	700	7,500
	191	dsl	550	Pool	700	7,500
	201	dsl	1400	OILWELL	1000	3,000

MIDDLE EAST (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
SAUDI ARABIA (Contd)						
Pool Arabia	202	dsl	1400	OILWELL	1000	12,000
	203		1400	OILWELL	1000	12,000
	23	dsl	300	Ideco H-40	450	8,000
	29	dsl	42[illegible]	Cabot/Franks Expl 1058	420	6,000
	40	dsl	600	Cabot/Franks 700	600	6,500
Santa Fe Drlg	101	dsl-elec	2600	National 110-UE	1500	16,000
	102	dsl-elec	2400	National 110-UE	1500	16,000
	104	dsl-elec	3400	National 1100-UE	1500	16,000
	109	dsl-elec	2000	National 110-UE	1800	16,000
	67	dsl-elec	2400	National 1320-DE	3400	20,000
	70	dsl-elec	2000	National 1320-DE	3400	20,000
	[illegible]0	dsl-elec	2000	National 1320-DE	2000	20,000
	92	dsl-elec	2800	National 1320-UE	1400	20,000
	94	dsl-elec	2250	National 110-UE	2000	16,000
SHARJAH						
Sedco Dubai Ltd	98	dsl-elec	2600	National 1320-UE	3000	25,000
SYRIA						
Continental Drlg & Dev	1	dsl	1000	National 80-S	1400	10,000
Parker Drlg	195-HH/42	dsl	2000	OIME TBA-2000	2000	20,000
Santa Fe Drlg	75	dsl	2000	National 1320-M	1800	20,000
TURKEY						
Aladdin-Middle East	1	dsl	1285	Bethlehem M-58	1000	12,000
KCA Drlg	71	dsl	2580	National 80-B	1540	12,000
UAE						
Sedco Dubai Ltd	97	dsl	2700	OILWELL 860	2200	16,000

SOUTH AMERICA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
ARGENTINA						
Astrafor SAIC	1	dsl	1500	EMSCO GC-350	800	10,000
	2	dsl	1500	EMSCO GC-358	800	10,000
	3	dsl	1600	EMSCO G-500	1000	12,000
	4	dsl	1500	EMSCO GC-350	800	10,100
	5	dsl	1600	EMSCO A-800	1500	14,000
	6	dsl	1400	Ideco BIR-800	800	8,000
	7	dsl	1600	EMSCO A-800	1500	14,000
	8	dsl	1600	EMSCO A-80	1000	12,000
	9	dsl	1400	Ideco BIR-800	800	8,000
Navier Perez Companc	1	dsl	1400	Cardwell J-450	700	6,900
	2	dsl	1400	Cardwell J-450	700	6,900
	28	dsl	1600	Gar-Den 800	1050	12,000
	29	dsl	1600	Gar-Den 700	700	10,000
	3	dsl	1400	Cardwell J-450	700	6,900
	37	dsl	1400	Cardwell KB-210	350	5,900
	4	dsl	1400	Cardwell J-450	700	6,900
	42	dsl	1600	Gar-Den 700		10,000
	5	dsl	1400	Cardwell KM-250	350	5,900
	6	dsl	1400	Cardwell KM-250	350	5,900
Rio Colorado SA	E-101	dsl	1250	M-CSCO U-36-A	700	10,000
	E-102	dsl	1250	M-CSCO U-36-A	700	10,000
	E-103	dsl	1250	M-CSCO U-36-A	700	10,000
	E-105	dsl	1000		600	8,500
	E-107	dsl	1800	National 100-N	1000	18,000
	E-108	dsl	1250	National	750	10,000
	E-109	dsl	1250	National N-75	750	11,500
	E-110	dsl	1000	Ideco H-40	500	6,500
	E-111	dsl	1500	Gar-Den 800	1000	12,000
	E-112	dsl	1000	Ideco H-40	500	6,500
	E-113	dsl	1600	Gar-Den 800	1000	15,000
	E-125	dsl	880	National T-440	450	6,000
	E-127	elec	2660	Gar-Den 1500-E	3000	20,000
	E-128	dsl-elec	1140	Ideco E-525	625	10,000
	E-129	dsl	1600	National 75	750	14,000
	E-130	dsl	1320	Ideco H-40	450	8,000
	E-132	dsl	1320	National 1320	450	8,000
	E-134	dsl-elec	2600	National 1625	3000	25,000
	E-137	dsl	1900	Ideco H-1200	1800	16,000
	E-301	dsl	230	Cardwell KB-500	380	
	E-302	dsl	160	WM-191	380	
	E-307	dsl	160	Ideco H-25	380	
	E-309	dsl	230	Ideco KB-210-A	280	
	E-310	dsl	230	Cardwell KB-200-C	380	
	E-317	dsl	550	Cardwell KB-200-C	370	6,000
	E-318	dsl	550	Ideco H-30	230	5,000
	E-319	dsl	550	Ideco H-30	230	5,000
	E-320	dsl	550	Ideco H-30	230	5,000
	E-323	dsl	550	Ideco H-30	230	5,000
RBI Drlg	30	dsl	2700	National 110	3075	18,000
	31	dsl	2700	National 110	3075	18,000
SAIPEM	5830	dsl-elec	2600	National 1320	2000	16,500
	5873	dsl	700	Ideco H-37/S	650	4,000
	5884	dsl		Ideco Pignone M-20-S	760	
	5896	dsl	2000	Ideco H-1200	1200	12,000
BOLIVIA						
Drilcon	7	dsl	1290	EMSCO GB-800	1290	13,000
Helmerich & Payne Rasco	11	dsl-elec	1600	HS-1500	1500	18,000
	9	dsl-elec	1600	HS-1500	1500	18,000
Rio Colorado SA	E-104	dsl	1000	Ideco H-1000	750	10,000
	E-126	dsl	2600	National 1320-E	2000	20,000

SOUTH AMERICA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
BRAZIL						
Navier Perez Companc	36	dsl	1600	Gar-Den 800	1050	12,000
	45	dsl-elec	2600	Ideco E-1700	1700	15,200
Parker Drlg	132-HH/20	dsl	1500	OIME TBA-2000	1700	20,000
	134-HH/22	dsl	1500	OIME TBA-2000	1700	20,000
	151-HH/34	dsl	1500	OIME TBA-2000	1700	20,000
Rio Colorado SA	E-119	dsl	1650	EMSCO A-800	1650	14,000
	E-120	dsl	2600	Brewster N-95-A	2550	20,000
	E-121	elec	2600	Brewster N-95-A	1500	20,000
	E-122	elec	2600	Brewster N-95-A	1500	20,000
	E-123	elec	2600	National 1320-E	1500	20,000
	E-124	elec	2600	National 1320-E	1500	20,000
COLOMBIA						
Bawden Drlg Intl	4	dsl-scr	2000	National 80-BE	1000	14,000
Helmerich & Payne (Colombia)	7	dsl-elec	1200	HS-1500	1500	18,000
	10	dsl-elec	1600	HS-1500	1500	18,000
Parker Drlg	104	dsl	1400	National 50-A	1275	10,000
	110-HH/9	dsl	1500	OIME	1700	17,000
	158	dsl	1200	National 80-B	1700	15,000
	209	gas	750	National 75	750	10,000
	80	dsl	2900	National 130	2900	25,000
Pool America	208	dsl	2000	OIME	1000	12,000
	209	dsl	2000	OIME	1000	12,000
Pool Intairdril	207	dsl	300	Pool 400	400	
ECUADOR						
Helmerich & Payne Del Ecuador	12	dsl-elec	1600	HS-1500	1500	18,000
	18	dsl	600	Cooper 550	600	6,000
Parker Drlg	102-HH-1	dsl	1200	OIME	1275	12,500
	159	dsl	2200	OILWELL 76	1560	15,000
Pool Intairdril	126	dsl	230	Wilson Mogul 42	450	6,500
	210	dsl	400	Wilson DD-42-428	450	3,000
	217	dsl	400	Ideco H-37	450	
PERU						
Belco Petr	2	dsl	1000	Brewster H-4210	700	6,000
	3	dsl	1000	National 55	700	9,000
	4	dsl	1000	National 80-B	1000	12,000
	6	dsl	1000	DH-4610 Brewster	1000	12,000
	7	dsl	850	EMSCO A-1100	1600	14,000
Blocker Intl	21	dsl	550	Ideco H-37	456	7,000
	22	dsl	550	Ideco H-37	456	7,000
	23	dsl	550	Ideco H-37	456	7,000
	24	dsl	550	Ideco H-37	456	7,000
Parker Drlg	107-HH/4	dsl	1200	OIME	1700	15,000
	108-HH/5	dsl	1500	OIME	1700	17,000
	109-HH/7	dsl	1500	OIME	1700	17,000
	127-HH/15	dsl	1500	OIME TBA-2000	1700	20,000
	131-HH/19	dsl	1500	OIME TBA-2000	1700	20,000
	154-HH/35	dsl	1500	OIME TBA-2000	1700	20,000
	206	dsl	2000	OIME TBA-2000		
	207	dsl	2000	OIME TBA-2000	2000	20,000
Rio Colorado SA	E-106	dsl	1000	EMSCO GC-350-T	600	8,500
	E-114	dsl	900	Cardwell T-250	500	7,500
	E-115	dsl	900	Cardwell T-250	500	7,500
	E-116	dsl	900	Cardwell T-150	500	7,500
	E-117	dsl	900	Cardwell T-250	500	7,500
	E-118	dsl	600	Ingersoll RT-5	200	3,000
VENEZUELA						
Helmerich & Payne CA	1	dsl	500	Cardwell M-250	300	6,000
	14	dsl	600	Ideco H-3F	400	7,000
	17	dsl	600	Cooper 550	600	6,000
	19	dsl	600	Cooper 550	600	6,000
	2	dsl	500	Cardwell M-250	300	6,000
	28	dsl	1500	National 110	1500	16,000
	3	dsl	600	Ideco H-37	600	6,000
	30	dsl	1200	Ideco H-525	1200	10,000
	31	dsl	1200	Ideco H-525	1000	10,000
	4	dsl	500	Cardwell M-250	300	6,000
	5	dsl	700	Ideco 525	300	7,000
	6	dsl	300	Ideco H-44	400	5,000
	67	dsl	1500	National 110	1500	18,000
Loffland Bros	14	dsl	700	M-CSCO U-36-A	785	9,000
	24	dsl-elec	2000	National 110-E	2000	14,000
	41	dsl	2000	M-CSCO U-914-C	2000	20,000
	54	dsl-elec	2900	M-CSCO U-1220-EB	3300	28,000
	61	dsl	500	Ideco H-525	566	6,500
	62	dsl	480	Ideco H-525	566	6,500
	68	dsl-elec	3200	M-CSCO U-1220-EB	3300	28,000
	94	dsl-elec	2000	M-CSCO U-1220-EB	1900	16,000
Santa Fe Drlg	110	dsl-elec	2000	National 1320-UE	2000	
	115	dsl-elec	2000	National 1320-DE	3400	
	117	dsl-elec	2800	OILWELL E-2000	2000	
	119	dsl-elec	2800	OILWELL E-2000	2000	
	125	dsl	800	Hopper GXTA	450	
	129	dsl	1700	Gar-Den 500-M	650	
	15	dsl	800	Ideco 525	600	
	16	dsl	600	National T-32	250	
	2	dsl	1700	National 130	1800	
	20	dsl	800	Ideco H-40-D	350	
	21	dsl	1200	U-914-B	1800	

SOUTH AMERICA (Cont'd)

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
VENEZUELA (Contd)						
Santa Fe Drlg	22	dsl	350	Ideco H-35	350	5,000
	24	dsl	350	Ideco H-35	350	5,000
	8	dsl	2200	National 130	1800	20,000
	9	dsl	1850	National 130	1800	20,000

SOUTHEAST ASIA

Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
BRUNEI						
Deutsche Tiefbohr	T-31	dsl	1000	Wilson	850	8,000
INDONESIA						
Bawden Drlg Intl	28	dsl	925	EMSCO GB-350	350	7,200
	29	dsl-elec	1400	National 80-BE	1000	12,000
	6	dsl	1000	National T-45	550	7,500
	9	scr	3200	National 1320-UE	2000	22,000
Loffland Bros	139	dsl	1400	M-CSCO U-36	900	10,000
	300	dsl	600	M-CSCO U-34	500	4,000
	56	dsl	900	M-CSCO U-36-A	900	10,000
O'Connor & Young Drlg	801	dsl	1600	National 610	850	12,000
Parker Drlg	106-HH/3	dsl	1200	OIME	1275	14,000
	115-HH/8	dsl	1500	OIME	1700	18,000
	125-HH/13	dsl	1500	OIME	1700	18,000
	126-HH/14	dsl	1500	OIME TBA-2000	1700	20,000
	130-HH/18	dsl	1500	OIME TBA-2000	1700	20,000
	153/187	dsl-elec	3200	OIME 3000-E	2000	24,000
	168	dsl-elec	3200	EMSCO C-2	2000	24,000
	188-HH/38		2000	OIME TBA-2400	2000	24,000
	190-HH/39	dsl	1500	OIME TBA-2000	1700	20,000
Westburne Intl Drlg	205-H	dsl	600	T-12 Modified West Helihoist G	250	5,000
	216-H	dsl	1200	Howard-Turner MT-38-H	400	5,000
	217-H	dsl	1200	Howard-Turner MT-38-H	400	5,000
PHILIPPINES						
Richter Drlg Pty	6	dsl	1800	National 100	1800	14,000
	8	dsl	1800	National 110-M	1800	14,000
SUMATRA						
Westburne Drlg Canada	202-H	dsl	1150	National 4-10	1590	10,000
THAILAND						
Parker Drlg	200-HH/44	dsl	2000	OIME TBA-2000	2000	20,000
Sedco Intl SA	91	dsl-elec	2000	National 110-UE	3300	16,000

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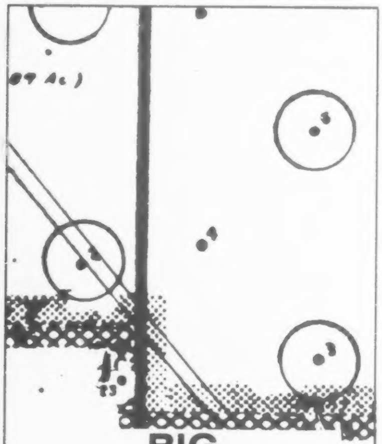
Contractor	Rig No.	Type Power	Total HP All Main Mud Pumps	Drawworks Make and Model	Total HP Available to Drwwks	Rated Depth with 4½" Pipe
WEST INDIES						
BARBADOS						
Well Serv	9	dsl-elec	2000	National 1320-UE	2000	20,000
DOMINICAN REPUBLIC						
Westburne Drlg Canada	55	dsl	3310	National 1320-UE	3310	22,000
TRINIDAD						
Skinner Drlg Contr	14	dsl	325	Ideco H-25	171	3,500
	15	dsl	90	Cabot/Franks 1287-120 DTD	180	6,500
WEST INDIES (Cont'd)						
Skinner Drlg Contr	16	dsl	180	Cabot/Franks 1287-120 DTD	240	15,200
	17	dsl	1100	OILWELL 660	840	9,000
	7	dsl	325	Ideco H-20	171	2,500
Skinner Marine Oper	16	dsl	450	Cabot/Franks 1287	300	4,000
	17	dsl	1100	OILWELL 660	840	
Well Serv	1	dsl	1400	National T-45	650	8,000
	2	dsl	1200	Gar-Den 500-M	650	9,000
	4	dsl	1000	M-CSCO U-34	600	6,000



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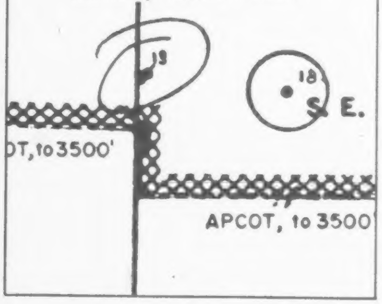

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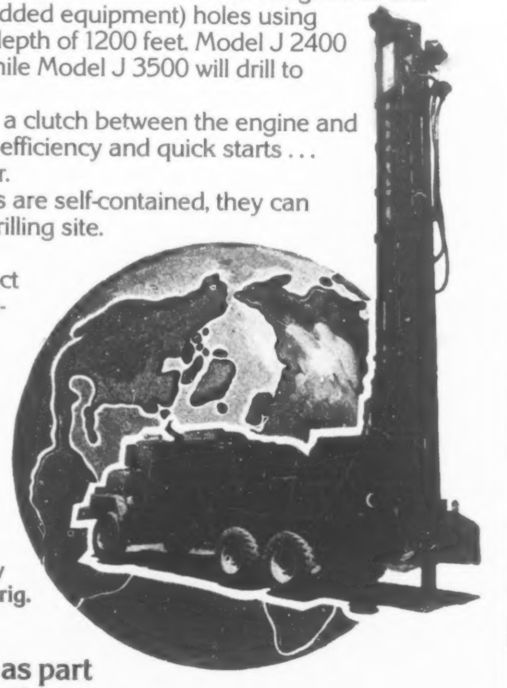

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Rig. No or Name	Type Power (Diesel, Gas, Gasoline)	Primary Mud Pump Make & Model	Secondary Mud Pump Make & Model	Total HP to Mud Pumps	Drawworks Make and Model	Total HP Available To Drawworks	Rated Depth With 4½ In. Pipe	PRESENT LOCATION	
								County or Area	State and Country

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NORTH SEA REPORT

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- Stop Scouring Before It Starts, p. 45
- International Offshore Rig Locator, p. R-1

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Utah Joins Ranks Of Rig Count Elite

Welcome Utah to the list of states that have active rotary rig counts in three figures. This brings the number of such states to 10, which means, of course, that 20% of all states now have more than 100 rigs running.

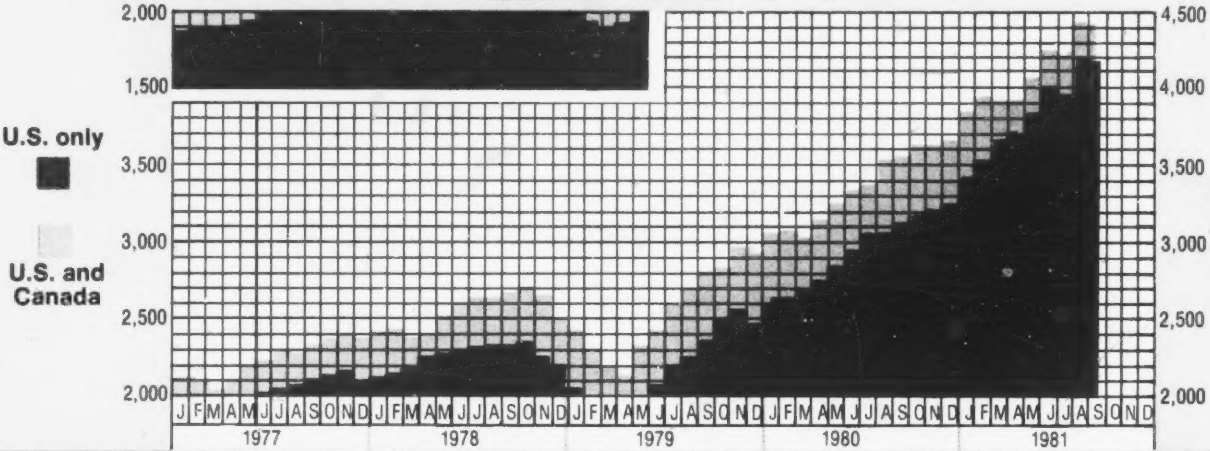
At the beginning of September last year, Utah's rig count (as reported by Hughes Tool Co.) was only 48, so the 103 rigs counted in this report represent a 114% increase. Other noteworthy increases during the year include Montana, with 74%; Alabama, 72%; Oklahoma, 68%; North Dakota, 56%; and Kansas and Texas, both with 44%. The overall U.S. rig count increased by 37% during the September-to-September period.

On an annual basis, the U.S. rig count this year averaged 3,781.7 going into September. At the same time last year, the annual average stood at 2,788.1. In Canada, the average going into the last third of 1980 stood at 401. This year, it is 277.

Rotary Rigs Actually Making Hole In United States & Canada

As Reported to International Association of Drilling Contractors by Hughes Tool Co.

	Aug. 17, 1981	Aug. 24, 1981	Aug. 31, 1981	Sept. 8, 1981
Alabama				
Land	16	14	13	16
Offshore	3	3	3	3
Total	19	17	16	19
Alaska				
Land	17	17	19	18
Offshore	1	1	1	1
Total	18	18	20	19
Arkansas	35	31	32	30
Arizona	2	2	2	2
California				
Land	140	140	137	137
Offshore	23	23	23	21
Total	163	163	160	158
Colorado	94	87	99	78
Florida				
Land	6	6	5	6
Offshore	2	2	2	2
Total	8	8	7	8
Hawaii	1	1	1	1
Idaho	4	4	4	4
Illinois	32	34	37	38
Kansas	197	198	205	207
Kentucky	2	4	3	3
North Louisiana	61	59	54	57
South Louisiana				
Inland Waters	84	83	83	79
Land	162	168	168	159
Offshore	162	156	158	158
Total	469	466	463	453
Maryland	1	0	1	1
Michigan	26	37	40	39
Mississippi	73	76	73	75
Montana	85	91	91	94
Nebraska	18	22	20	18
Nevada	4	4	4	4
New Mexico	124	118	128	123
New York	15	14	14	14
North Dakota	134	117	125	125
Ohio	110	105	103	100
Oklahoma	721	730	742	755
Oregon	2	2	4	4
Pennsylvania	41	42	41	43
Rhode Island				
Offshore	2	2	2	3
South Dakota	2	2	2	3
Texas				
Offshore	74	77	76	74
Dist. 1	71	64	62	78
Dist. 2	75	87	85	71
Dist. 3	258	257	275	246
Dist. 4	125	124	124	124
Dist. 5 & 6	173	181	174	186
Dist. 7B	92	87	82	88
Dist. 7C	97	103	97	88
Dist. 8	185	169	183	188
Dist. 8A	91	100	90	102
Dist. 9	93	94	97	95
Dist. 10	78	79	73	75
Total	1412	1422	1418	1415
Utah	80	72	79	103
Virginia	6	4	6	6
Washington	3	3	3	3
West Virginia	47	55	48	53
Wyoming	192	200	201	183
Total U.S.	4142	4151	4194	4184
Western Canada	227	224	230	233
Eastern Canada	7	7	7	7
U.S. and Canada	4376	4382	4431	4424



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API Credits Economics For Record Drilling Activity

Despite repeated warnings of equipment and labor shortages, the level of drilling activity in the U.S. in 1980 and early 1981 increased at a faster rate than previously thought possible, according to Discussion Paper 024 prepared for the American Petroleum Institute by Donald A. Norman of the Policy Analysis Department.

The paper, "The Response of Drilling Activity to Higher Oil Prices", refutes the belief that "limitations on the physical availability of key inputs constrain the rate at which drilling activity can increase, and, therefore, that increased demand for drilling merely leads to oilfield inflation as drilling contractors bid up the price of these inputs". The paper says, rather, that constraints on increased drilling activity are economic rather than physical in nature.

Although the initial impact of an increased demand for drilling is to raise both the price and the rate of drilling activity, API points out, the longer run allows suppliers time to seek and find economic ways to increase their outputs. Just as the increased demand for drilling creates profit opportunities for those who expand drilling activity, API adds, the increase in demand for drilling inputs provides those who supply the industry the opportunity to profit by expanding their capacities. This process of expansion includes:

- Capacity expansion by existing firms that supply the drilling industry.
- Entry by firms into industries supplying drilling companies.
- Provision of substitute inputs for those whose relative price has increased (and, hence, are viewed as being in short supply.)
- Technological change aimed at creating new substitutes and increasing the productivity of existing equipment.

Average rotary rig activity increased during the period 1971 through 1978 by a compounded annual rate of 12.7%. Activity was down slightly in 1979, but, since then, has increased at an extremely high rate to eclipse drilling records set back in 1955 and 1956.

Typical of new rigs attracted by the improved economics of the petroleum industry is this 25,000-ft rig, the first of 42 new rigs ordered by Continental Drilling Co., a new contractor.

From 1979 to 1980, the total number of wells drilled increased by 22%, while the average number of active rotary rigs increased by 34%. The stock of rigs increased 490 (15.4%).

This jump in drilling activity, API says, was unforeseen by most industry experts because of the widespread belief that expansion would be constrained by the availability of key inputs–including skilled labor for seismic activity and work on drilling rigs, the number of available rigs, oil country tubular goods, and supplies of such other products as drilling mud, cement, and drill bits.

Expansion of the rig fleet has far outpaced the forecasts of industry experts. The increase of 490 rigs from August 1979 to August 1980 represents the largest net increase in the number of rigs ever recorded in one year, and is 33% greater than the previous record, set in 1977. In addition, the increase of 490 rigs in 1980 is almost four times the increase delivered in 1974.

Among factors accounting for the rapid expansion of the number of drilling rigs is an increase in the number of firms building rigs. According to the International Association of Drilling Contractors, there are some 17 firms building rigs today as compared to less than 10 five years ago.

The expansion in wells drilled also reflects the entry of new firms into the drilling industry, API says, quoting an IADC report that the number of drilling firms grew by 110 in 1980. In addition, a number of well servicing contractors are entering the drilling industry.

In answering the question, "At what rate might the stock of rigs grow in the future?", the API report cites a recent estimate that the rig fleet now is expanding at the rate of 90 rigs per month, or 1,080 per year. This is consistent with the implications of the Institute's economic versus physical theory. The higher prices paid for rigs induces capacity expansion by existing rig builders, entry by new builders (domestic and foreign), and substitution (of modified service rigs, for example). Constraints on the number of rigs, therefore, proved to be short-lived, and the future rate at which new rigs are supplied appears chiefly to be a matter of the economics of such expansion.

Tubular Goods

Despite concerns expressed in early 1980 about the availability of various oil country tubular goods, U.S. mills last year produced 3,613 million tons of drill pipe, casing, and tubing for the oil industry. This represents an increase of 47% over the 2,458 million tons produced in 1979. Here, again, the response to an increase in demand was far more rapid than knowledgeable observers expected.

Imports are up also. In 1979, 497,000 tons were imported. In 1980, imports were up to about 1.3 million tons. This year, imports are expected to reach 2 million tons.

Other responses to the increased drilling activity and, therefore, demand for tubular goods, include the substitution of aluminum for steel drill pipe, the use of non-API rated pipe in some shallow wells, and recovery of used tubulars from abandoned wells.

The API report points out that the supply of tubular goods rapidly responded to the increased demand, as did the supply of rigs. Although certain specialty items may have increased less rapidly, API says there is no evidence that the overall level of drilling activity has been constrained by the lack of tubular goods. In fact, concern recently was expressed about possible over-expansion of tubular goods production capacity.

TABLE 1. Additions to crude oil reserves, 1971 to 1979; crude oil production in lower 48 states, 1971 to 1981

	Total of discoveries, revisions, and extensions, thousands of bbl	New field discoveries, thousands of bbl	Crude oil production in lower 48 states,* thousand b/d	Percentage change in production from previous year, thousand b/d
1971	2,317,732	91,469	9,460	−1.87
1972	1,557,848	123,210	9,440	−0.21
1973	2,145,831	116,097	9,010	−4.56
1974	1,993,573	226,163	8,581	−4.76
1975	1,318,463	173,177	8,184	−4.63
1976	1,085,291	67,842	7,959	−2.75
1977	1,403,780	159,950	7,781	−2.24
1978	1,347,256	199,994	7,478	−3.89
1979	2,205,673	239,406	7,151	−4.37
1980	N.A.	N.A.	6,980	−2.39
1981 (Jan.-March)	N.A.	N.A.	6,956	−0.34

* Includes lease condensate

Skilled Labor

A third major input generally identified as a possible constraint on increased drilling activity is skilled labor. API, however, points to data on enrollments in university departments offering degrees in petroleum engineering as suggesting that students are responding to starting salaries that are relatively high.

The Society of Petroleum Engineers surveyed 19 universities and found that there were 536 graduates there with BS degrees in petroleum engineering in 1978. The universities forecast 952 such graduates in 1982–an increase of 77.6%.

With respect to drilling crews, API points out that concern over the lack of trained personnel is nothing new. Several years ago, for example, industry observers questioned whether the industry would come up with enough crews to sustain an active rig count of 3,000. According to the IADC, however, the number of drilling crews in the past 10 years has expanded from about 3,000 to almost 15,000. This represents an average growth rate of 17.5%.

Drilling Results

The most recent data available on additions to crude oil reserves indicate that increased drilling activity is showing some results. In 1979, the total of new discoveries, revisions of previous estimates, and extensions of existing fields was 2.2 billion bbl – up from 1.3 billion bbl reported in 1978. Additions to oil reserves in 1979 from new field discoveries were the highest since 1970, when the Alaskan reserves were recorded.

Also, the increase in discoveries may be responsible for a recent slowdown in the rate of decline of crude oil production in the lower 48 states.

In conclusion, the API report says there is a great deal of evidence that drilling activity is highly responsive to changes in the relative profitability of oil production. Despite repeated warnings about physical shortages of equipment and skilled personnel, drilling activity continues to increase.

This suggests, API says, that the notion of physical shortages as a constraint to increased drilling is invalid. What constrains drilling activity is its economics.

International Count Up By Baker's Dozen

The international rotary rig count, led by a 13-rig gain in Latin America, was up by just that number of rigs in July as compared with June, and was 67 rigs higher than the same month in 1980.

The report, prepared each month by Hughes Tool Co., Houston, Tex., indicates that all of Latin America's increase can be credited to land rigs, of which the region has 436–197 of them in Mexico.

The only other regions registering gains during the month are the Middle East and South Pacific. The Middle East, led by Abu Dhabi, added nine land rigs, while Australia's two additional offshore rigs accounted for the South Pacific increase.

Hughes Tool Co.
International Rotary Drilling Rig Report
Summary

	July 1981	June 1981	July 1980
Africa	214	214	216
Europe	204	209	178
Far East	244	248	225
Latin America	522	509	475
Middle East	167	160	195
South Pacific	24	22	19
Total	1,375	1,362	1,308
China (Offshore)	4	13	13

	July 1981			June 1981		July 1980	
	Land	Offshore	Total	Land	Offshore	Land	Offshore
Algeria	98	0	98	98	0	111	0
Angola	0	4	4	0	4	1	4
Cameroun	0	8	8	0	8	0	4
Gabon	5	8	13	5	8	2	7
Libya	31	2	33	31	2	38	2
Morocco	4	0	4	4	0	1	1
Chad	1	0	1	1	0	1	0
Nigeria	15	5	20	15	5	15	5
Rep. of Congo	2	5	7	2	5	0	4
Rep. of Zaire	1	0	1	1	0	1	0
Tunisia	8	3	11	8	3	5	2
Niger	5	0	5	5	0	5	0
Ivory Coast	0	4	4	0	4	1	2
South Africa	0	2	2	0	2	0	2
Sudan	3	0	3	3	0	2	0
Total: **Africa**	173	41	214	173	41	183	33

(continued)

Exxon Releases Data On Pt. Thomson Wells

Exxon Co. U.S.A. recently released test results of two additional Exxon-operated wells on the Point Thomson Unit 50 miles east of Prudhoe Bay, Alaska.

Point Thomson Unit well No. 3 was completed in 1979 at a total depth of 14,125 ft. In a test below 13,500 ft, the well tested 6.3 MMcfd of gas and 476 b/d of 18° API gravity condensate.

Point Thomson Unit well No. 4 was completed in 1980 at a total depth of 15,074 ft with no significant amounts of hydrocarbons being found.

The two wells are among six drilled by Exxon in the Flaxman Island-Point Thomson area. Five of the wells have tested significant quantities of oil or gas.

The Point Thomson Unit No. 3 well was drilled by Exxon, Mobil, Phillips, and Chevron in the eastern part of the Exxon-operated Point Thomson Unit. The No. 4 well was drilled by Exxon, Mobil, Phillips, and Aquitaine 6 miles west of the No. 3 in the northwestern portion of the 40,000-acre unit.

Exxon plans to drill two additional wells this winter in the area.

Terra Discovery Southwest of Alva

Terra Resources Inc. has discovered an oil and natural gas field in Woods County, Oklahoma, approximately 13 miles southwest of Alva.

The No. 1 Eckels flowed 140 b/d of oil, 10 b/d of water, and 300 Mcfd of natural gas through an 11/64-in. choke with 950-psi flowing tubing pressure. Production was from the Hunton between 6,529 and 6,533 ft. Log analysis also indicates probable gas pay in the Mississippian.

The discovery is located 5 miles west of Hunton production in the Avard N. W. field and 2 miles northwest of Hunton production in the Cora field. Proposed name of the new structure is North Teagarden field.

Reading & Bates Joins Colombia Drilling

Reading & Bates Petroleum Co. has signed an exploration and development contract with Sunray Colombia Oil Co. for exploration in the San Marcos block of Colombia.

The seismic program on the 225,000-acre block has been completed, and drilling of the first exploratory well will commence in October 1981, to an estimated total depth of 11,800 ft.

Sunray, headquartered in Dallas, will be the operator, with 37.5% working interest in the project.

	July 1981			June 1981		July 1980	
	Land	Offshore	Total	Land	Offshore	Land	Offshore
Austria	10	0	10	8	0	8	0
Belgium	0	0	0	0	0	1	0
Denmark	0	2	2	0	2	3	0
France	15	2	17	15	2	10	1
Germany	24	0	24	23	1	21	0
Greece	3	3	6	3	3	1	2
Holland	9	6	15	9	6	6	11
Ireland	0	0	0	0	0	0	2
Italy	25	7	32	25	7	7	9
Norway	0	12	12	0	12	0	9
Portugal	1	0	1	1	0	0	0
Switzerland	1	0	1	1	0	1	0
Spain	5	1	6	8	2	7	4
United Kingdom	5	51	56	4	55	3	50
Yugoslavia	22	0	22	22	0	22	0
Total: **Europe**	120	84	204	119	90	90	88
Bangladesh	5	0	5	5	0	3	0
Brunei	1	6	7	1	6	1	7
Burma	31	0	31	31	0	25	0
India	37	7	44	37	7	37	6
Indonesia	59	27	86	60	25	57	19
Japan	11	2	13	15	2	13	3
Korea	0	0	0	0	0	0	0
Malaysia	0	12	12	0	13	1	10
Maldives	0	0	0	0	0	0	0
North Korea	0	0	0	0	0	0	0
Pakistan	14	0	14	16	0	14	0
Philippines	10	3	13	8	3	10	3
Thailand	3	4	7	2	5	1	3
Taiwan	11	1	12	11	1	10	2
Vietnam	0	0	0	0	0	0	0
Total: **Far East**	182	62	244	186	62	172	53
P.R. of China		4			13		13
Argentina	68	3	71	65	3	69	0
Barbados	1	0	1	0	0	0	0
Bolivia	11	0	11	10	0	4	0
Brazil	53	29	82	52	31	38	38
Guatemala	7	0	7	5	0	3	0
Chile	4	4	8	3	4	4	3
Colombia	19	0	19	16	0	11	1
Ecuador	4	0	4	3	0	3	0
Mexico	197	20	217	197	20	193	23
Paraguay	0	0	0	0	0	0	0
Peru	18	6	24	18	5	16	5
Trinidad	8	7	15	8	6	9	5
Uruguay	0	0	0	0	0	0	0
Venezuela	46	17	63	46	17	36	14
Total: **Latin America**	436	86	522	423	86	386	89
Abu Dhabi	18	16	34	10	18	5	19
Bahrain	1	0	1	1	0	1	0
Dubai	0	2	2	0	2	1	2
Egypt	11	16	27	11	16	10	17
Iran	0	0	0	0	0	0	0
Iraq	5	0	5	5	0	39	0
Kuwait	3	0	3	3	0	3	0
Neutral Zone	0	0	0	0	0	0	0
Oman	10	0	10	9	0	8	0
Qatar	3	4	7	4	4	4	4
Ras Al Khaimah	1	0	1	1	0	1	0
Saudi Arabia	16	15	31	16	15	15	10

(continued)

		July 1981		June 1981		July 1980	
	Land	Offshore	Total	Land	Offshore	Land	Offshore
Sharjah	2	1	3	1	1	1	0
Syria	16	0	16	16	0	15	0
Turkey	26	0	26	26	0	40	0
Umm Al Qaiwain	1	0	1	1	0	0	0
Total: **Middle East**	113	54	167	104	56	143	52
Australia	19	4	23	19	2	10	7
New Zealand	0	1	1	0	1	1	0
Papua New Guinea	0	0	0	0	0	1	0
Total: **South Pacific**	19	5	24	19	3	12	7

Tosco Studying Moroccan Shale

Tosco Corp. and the French bank Paribas (Banque de Paris et des Pays-Bas, S.A.) have signed a contract with Morocco to perform an 18-month feasibility study leading to commercial development of Moroccan oil shale deposits at Timahdit.

The agreement with the new Moroccan energy agency, Onarexh, provides Tosco and Paribas with the right to participate in the development of a full-scale oil shale project at Timahdit if the feasibility study recommends immediate commercial-scale development.

The Timahdit deposit is located in the Middle Atlas Mountains south of the city of Fez. The region contains several billion tons of oil shale averaging approximately 25 gal/ton.

The Tosco-Paribas study of the Timahdit oil shale deposit will include: mining alternatives; use of the Tosco II process to recover the oil; oil upgrading, refining, transportation, and marketing plans; environmental and socio-economic studies; and economic and financial analyses for a commercial oil shale project.

Onshore Licenses Awarded In Britain

Ten petroleum exploration licenses covering onshore areas in Scotland and England were awarded in June by David Howell, Secretary of State for Energy.

The licenses authorize the holders to search for oil and gas only by prospecting and geological survey, including drilling to a depth of not more than 1,150 ft to obtain geological information. They do not confer the right to drill for or to produce petroleum.

The first license – 151, covering 37 sq miles in Fife – was issued to North Sea Petroleums Ltd. The next two licenses were issued to a group headed by RTZ Oil and Gas Ltd. They cover 97 sq miles in South Yorkshire, Humberside, Lincolnshire, and Nottinghamshire, and 53 sq miles in Nottinghamshire.

Licenses 154 and 155 were issued to Bearcat Explorations (UK) Ltd. for 304 sq miles in Gloucestershire and Wiltshire and 310 sq miles in Gloucestershire and Oxfordshire.

License 156, covering 186 sq miles in Wiltshire, went to a group headed by Voyager Petroleums (UK) Ltd.

British Sun Oil Co. Ltd. heads a group that was awarded licenses 157 and 158 covering 164 sq miles in Wiltshire, Oxfordshire, and Berkshire, and 310 sq miles in Berkshire, Oxfordshire, and Hampshire.

Licenses 159 and 160 went to a Carless Exploration Ltd. group, and they cover 310 sq miles in Avon and Somerset plus 308 sq miles in Avon, Somerset, and Wiltshire.

Philippine Discovery Taps Subsea Sandstone

Philippines-Cities Service Inc.'s latest oil discovery offshore Palawan Island in the Republic of the Philippines flowed 1,850 b/d of 35.3° API oil on a ¾-in. choke from perforations of 7,338-64 ft. Wellhead pressure was 275 psi.

Another drillstem test near the top of the same reservoir, at 7,255-85 ft, also flowed at about 1,800 b/d through a ¾-in. choke with a wellhead pressure of 318 psi.

Located in 1,100 ft of water, the well, Galoc-1, is the first indicated discovery to be produced from a sandstone reservoir in the Philippines offshore. The Nido, Matinloc, and Cadlao oil strikes are all in reefal limestone reservoirs. Galoc-1, drilled to a depth of 12,141 ft, is the northernmost oil found in the Philippines to date. It is situated 75 miles northeast of the Nido field, 40 miles northeast of the Matinloc field, and 50 miles northeast of Cadlao.

Barringer, Merit Drilling in Kentucky

Barringer Resources Inc. of Denver and Toronto has signed an agreement with Merit Resources Corp. and Assoicates of Glen Rock, N. J., and Tulsa for a two-phase oil and gas exploration program covering initially up to 10,000 acres of leases held by Merit in south-central Kentucky.

Dr. Anthony R. Barringer, president of Barringer Resources, said his exploration and research firm will use a combination of geological, geophysical, and geochemical methods to select up to 10 drill sites to be drilled by Merit. Depending upon success of the first phase, Merit has the option to substantially expand the program to include addditional acreage, Barringer said.

Joint Discovery In Liberty County

Texaco U.S.A. and Inexco Oil Co. have discovered natural gas and condensate in an exploratory well drilled near Liberty, Tex., about 45 miles east of Houston.

Drilled to a total depth of 17,500 ft, the Texaco Boyt Heirs No. 1 well tested 5.2 MMcfd of gas and 120 b/d of condensate through a 10/64-in. choke from perforations below 16,000 ft in the Yegua formation, with flowing tubing pressure of 10,694 psi.

The discovery is located 14 miles southwest of Texaco's Nome Northeast field, discovered in 1980, which also produces gas and condensate from the Yegua formation.

Steam Drilling Makes Comeback

Meeting today's high rig demand with a page from the past, D&R Drilling Co. of Odessa, Tex., has put together a steam-powered drilling rig from both spare and new parts and is using it to drill a 14,800-ft well for Border Exploration Co.

The well, Amigo State No. 18-1, is located in Ward County, Texas, 5 miles northwest of Grandfalls and 15 miles southwest of Monahans.

Ed Durrett, president of D&R Drilling, explains the philosophy behind the innovative rig, "We noticed that other rig companies were putting tremendous investments of time and money into trying to make electric rigs provide the flexibility and advantages of the steam rigs of yesteryear. We thought a better approach would be to modify old steam engines and rigs to take advantage of the new technologies developed in the diesel-powered rigs and still use steam as our primary power source."

The new rig, which took 6 months to assemble, is composed of approximately 60% new parts and 40% old. Most of the old parts were found in Louisiana, where steam drilling had been most popular.

"The old parts, which, of course, include the steam engine, were recon-

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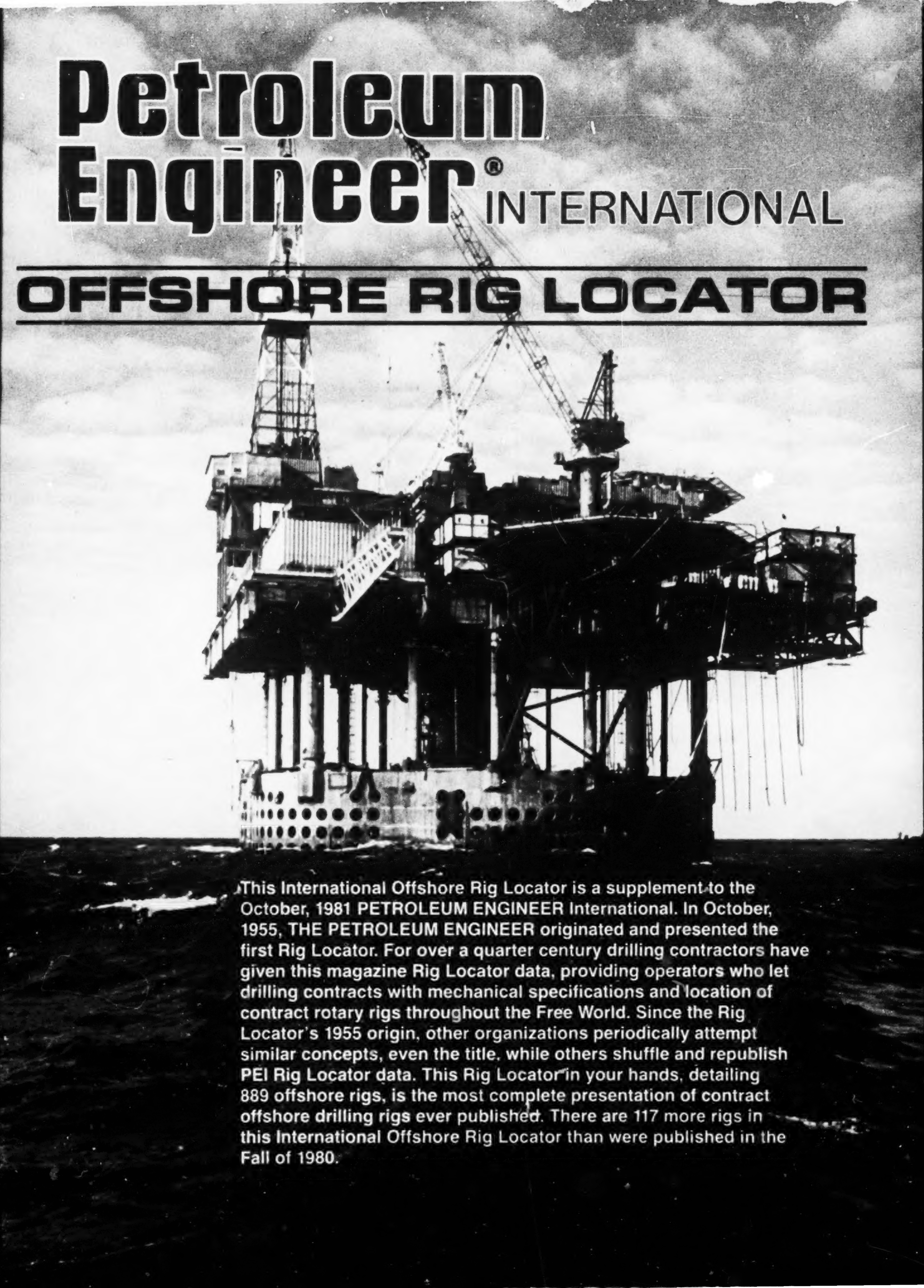


This International Offshore Rig Locator is a supplement to the October, 1981 PETROLEUM ENGINEER International. In October, 1955, THE PETROLEUM ENGINEER originated and presented the first Rig Locator. For over a quarter century drilling contractors have given this magazine Rig Locator data, providing operators who let drilling contracts with mechanical specifications and location of contract rotary rigs throughout the Free World. Since the Rig Locator's 1955 origin, other organizations periodically attempt similar concepts, even the title, while others shuffle and republish PEI Rig Locator data. This Rig Locator in your hands, detailing 889 offshore rigs, is the most complete presentation of contract offshore drilling rigs ever published. There are 117 more rigs in this International Offshore Rig Locator than were published in the Fall of 1980.

Petroleum Engineer® INTERNATIONAL

Fall 1981 International

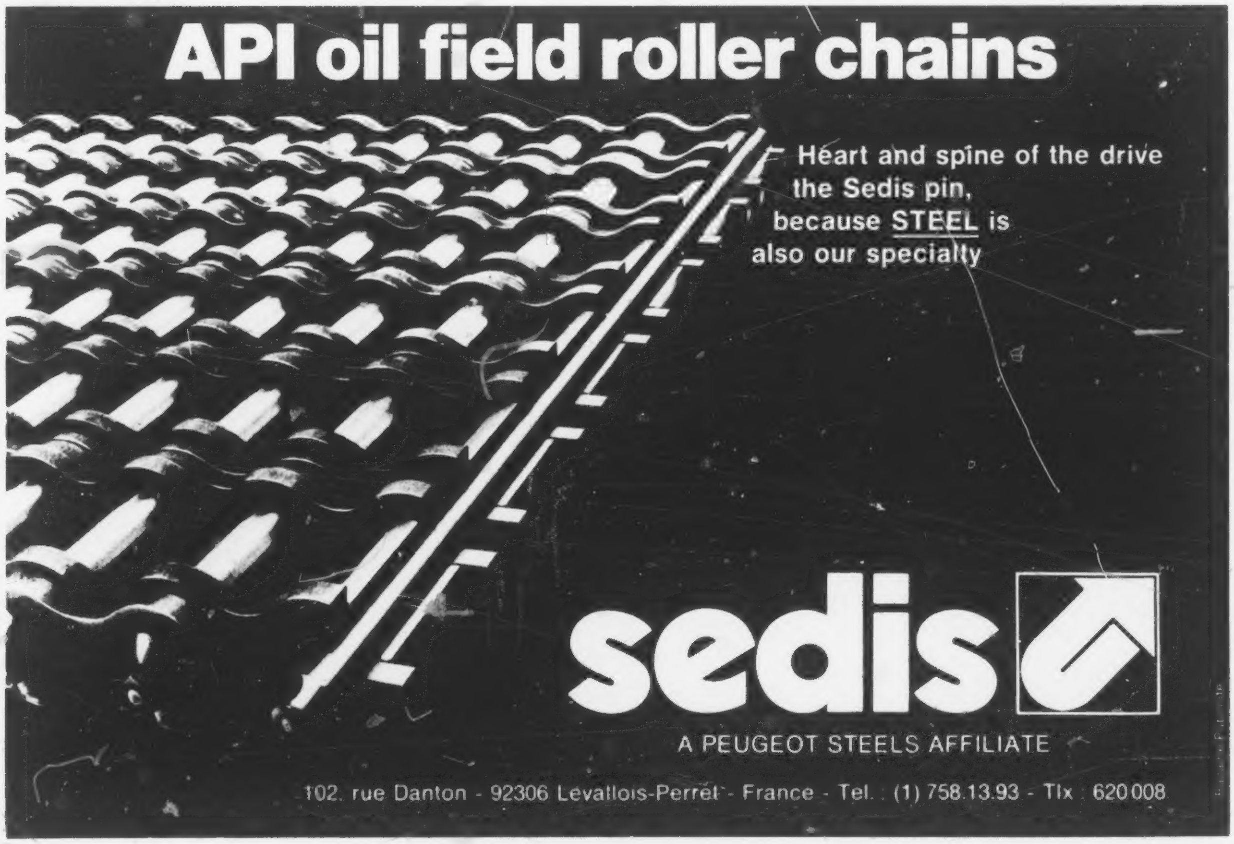
OFFSHORE RIG LOCATOR

The CDP1 drilling and production platform at the Frigg field on the border line of the British and Norwegian sectors of the North Sea is topped by a Saipem drilling rig.

DRAWWORKS MANUFACTURERS

ABBREVIATIONS

Bethlehem Supply Co.	Beth
Cabot Corporation Machinery Division	Cabot/Franks
Continental-Emsco Co.	EMSCO
Gardner-Denver	Gar-Den
Howard-Turner Machine Works	Howard-Turner
Hydra Rig inc.	Hydra
Ideco Inc.	Ideco
Mid-Continent Supply	M-CSCO
National Supply	Natl
OIME	OIME
OILWELL Div. (U.S. Steel)	OILWELL
Pool Company	Pool
Skytop/Brewster	Brwstr
Unit Rig Company	Unit
Wilson Manufacturing Co. Inc.	Wlsn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International Contract Offshore Drilling Rigs

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with 4½ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		
					AFRICA					
UNDESIGNATED										
Cosifor	Navifor III	Tender	16.75	5000	National 1320-UE	20,000	600			Under Construction
ANGOLA										
Sedco	Sedco 135-G	Semisubmersible	21.25	10000	OILWELL 3000	25,000	800	31	Soyo	Drilling
ARMADAH										
Western Oceanic	Nike I	Jackup	13.63	10000	National 1320	20,000 5"	150			Under Construction
CAMEROON										
Chiles Drlg	Texas Star	Jackup	13.63	1000	National 110-UE	16,000	150	85	Kribi	Testing
Cosifor	Navifor I	Tender	16.75	5000	National 1320-UE	20,000	600			Working
	Navifor II	Tender	13.63	5000	National 1320-UE	20,000	600			Working
Diamond M	Barge 45	Barge-Posted	13.63	10000	OILWELL 3000	25,000	22		West Africa	Drilling
Foramer	Ile de la Reunion	Tender	13.63	5000	National 110-DE	16,000	250		Gulf of Guinea	Elf Serepca

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with 4½ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		
AFRICA (Cont'd)										
CAMEROON (Contd)										
Forex-Neptune	Neptune 7 Pentagone 81	Semisubmersible	13.63	10000	National 1320-UE	24,000	660	660		Drilling
	Pentagone 82	Semisubmersible	18.75	10000	EMSCO C3-UE	20,000/5"	1050	1050		Drilling
	Trident 7A	Jackup	13.63	10000	Gar-Den 1500-E	21,700	132	132		En Route
Reading & Bates Drlg	Douglas Carver	Drillship	20.00	10000	National 1625-DE	25,000	750			Contracted-AGIP
Western Oceanic	Western Polaris II	Jackup	13.63	10000	National 1320-UE	20,000/5"	250		Gabon	Contracted-Elf
CONGO										
Foramer	Ile de Re	Tender	16.75	5000	National 1320-DE	20,000	300		Gulf of Guinea	Elf Congo
	Ile de Sein	Tender	16.75	5000	National 1320-DE	20,000	400		Gulf of Guinea	Elf Congo
	Ile D'Yeu	Tender	16.75	5000	National 1320-DE	20,000	400		Gulf of Guinea	Elf Congo
Reading & Bates Drlg	Dave Dodge	Platform/Tender	20.00	5000	OILWELL 840-E	18,000				Elf Until 9/82
	F G McClintock	Jackup	20.00	10000	OILWELL E-3000	25,000	300	120		AGIP Until 5/83
EGYPT										
Dixilyn-Field Drlg	82	Jackup	13.63	5000	National 1320-UE	20,000	250		GS-345-1 Gulf of Suez	Drilling
Egyptian Drlg	EDC Rig 22	Platform	13.63	5000	EMSCO WS-1B	17,000			Gulf of Suez	Drilling
	4				National 110	13,000			Gulf of Suez	Drilling
Fluor Drlg Serv	Western Offshore III	Barge	13.63	10000	National 1320-DE	20,000/5"	600	162	Abu Shiban NW-1	Drilling
Foramer	Ile d'Amsterdam	Jackup	13.63	10000	National 1320-DE	20,000	300		Gulf of Suez	IEOC
Intl Chandlers	Sedco 472	Drillship	16.75	10000	OILWELL E-3000	25,000	6000		Maadi	Working
Japan Drlg	Hakuryu I	Jackup	13.63	5000	Niigata N-3000	13,500	110	103	Gulf of Suez	Drilling
Maersk Drlg	Maersk Endurer	Jackup	13.63	10000	OILWELL E-2000	20,000	250	105	Gulf of Suez	Drilling
	Maersk Exerter	Jackup	13.63	5000	OILWELL E-2000	20,000	250	75	Gulf of Suez	Drilling
Ocean Drlg & Expl	Ocean Tide	Jackup	20.00/13.63	2000/10000	National 1320-DE	25,000	250	250	Gulf of Suez GS-19-A-5C	Drilling
	Ocean Typhoon	Drillship	20.00/13.63	2000/5000	National 1320-UE	25,000	600	600	Gulf of Suez/ NN-88-1	Drilling
Offshore Co	Comet	Jackup	13.63	10000	National 1320-UE	20,000	225		Gulf of Suez	Working
	Discover I/Rig 22	Tender	12.00	3000	National 80-B	12,000	600		Gulf of Suez	Working
	Discoverer II	Drillship	16.75	5000	EMSCO 3000	20,000	1500	124	Gulf of Suez	Working
Santa Fe Drlg	Rig 105	Jackup	21.25	5000	EMSCO C-2	20,000	250	200	Gulf of Suez	Operating
	Santa Fe Mariner I	Semisubmersible	16.75	5000	National 1320-UE	20,000	600	325	Gulf of Suez	Operating
Western Oceanic	Western Triton I	Jackup	13.63	10000	National 1320-UE	20,000/5"	250		Gulf of Suez	Contracted-Deminex
GABON										
Atwood Oceanic	Shiloh	Tender	16.75	5000	National 1320	20,000/5"	600	85	Gabon-Mayumba S A4	Drilling
Cosifor	Navifor Norse	Drillship	16.63/20.00	10000/2000	National 1320-UE	20,000	600			Drilling
Dyvi Drlg A/S	J/U Dyvi Gamma Trigone 2	Jackup	21.25	10000	National 1320-UE	25,000		400		Drilling
Foramer	Ile D'Ouessant	Tender	10.00	5000	Ideco H-525	8,000	360		Gulf of Guinea	Elf Gabon
	Ile de la Martinique	Tender	16.75	5000	National 1320-DE	20,000	360		Gulf of Guinea	Elf Gabon
	Ile De l'Europe	Tender	10.00	5000	National 110-DE	16,000	250		Gulf of Guinea	Elf Gabon
	Shiloh	Tender	16.75	5000	National 1320-DE	20,000	450		Gulf of Guinea	Elf Gabon
Forex-Neptune	Searex I	Tender	16.75	5000	Gar-Den 1100-E	18,000		200		Drilling
	Searex 2	Tender	11.00	10000	Gar-Den 500-E	11,000		350		Operating
Global Marine Drlg	Glomar Adriatic I	Jackup	13.63	10000	National 1625-DE	25,000	300	300		Elf
	Glomar Adriatic II	Jackup	13.63	10000	National 1625-DE	25,000	300	300		Elf
	Glomar Main Pass I	Jackup	13.63	10000	National 1625-DE	25,000	300	300		Shell
Ocean Drlg & Expl	Ocean Ruler	Jackup	20.00/13.63	2000/5000	National 1625-EU	25,000	250	250	NBNM No 3	Drilling
Reading & Bates Drlg	J W Bates	Drillship	20.00	10000	National 1320-UE	20,000	600			Contracted-Elf
Santa Fe Drlg	Mariner 2	Semisubmersible	16.75	5000	National 1320-UE	20,000	600	300	Gabon	Operating
IVORY COAST										
Fluor Drlg Serv	Western Offshore V	Barge	16.75	5000	National 1320-DE	20,000/5"	600	170	N Tano 1-X	P&A Prep to Tow-Malta
Foramer (Offshore Europe)	Petrel		16.75	10000	National 1625-DE	25,000	2000			Philipps
Forex-Neptune	Unifor 2	Platform	13.63	5000	EMSCO 1500-E	21,700				Drilling
Sedco Overseas Drlg	Sedco 471	Drillship	16.75	10000	OILWELL E-3000	25,000	6000		Abidjaz	Working
Southeastern Drlg Serv	Sedco J	Semisubmersible	21.25/13.63	2000/10000	OILWELL E-3000	25,000/5"	800	360	Blk C1-2X	Drilling
KENYA										
Western Oceanic	Apollo 1	Jackup	13.63	10000	EMSCO C-3	20,000/5"	300			Contracted-Cities Service
LIBYA										
Saipem	Scarabeo 3	Semisubmersible	18.75	10000	National 1625	25,000/5"	1300		CINC 35	Just Arrived
NIGERIA										
Diamond M	Barge 44	Barge-Posted	13.63	5000	OILWELL 3000	25,000	22	18	West Africa	Drilling
Dixilyn-Field Drlg	83	Jackup	13.63	10000	National 1320-UE	20,000	250	225	EBOT-2	Drilling
Foramer	Asteride	Semisubmersible	18.75	10000	Gar-Den 2100-DE	25,000	800			Elf Nigeria
Forex-Neptune	Emsco 1500/2 Belle Isle	Barge	13.63	5000	EMSCO 1500-UE	21,700/5"		22		Drilling
	Ideco 2500/1 Lutece	Barge	13.63	5000	Ideco 2500-E	25,400		22		Drilling
	Neptune 1	Jackup	13.63	5000	National 1625-DE	24,000	257			Drilling
	Trident IV-A	Jackup	13.63	10000	Gar-Den 2100-E	25,400		300		Drilling
Keydril	Key Bermuda	Jackup	13.63	10000	OILWELL 2000	20,000	200			Drilling
	Key Largo	Jackup	13.63	10000	OILWELL E-300	25,000		300		Drilling
Saipem	Saipem Due	Drillship	16.75	5000	National 1625	25,000/5"	1000		A1 X	Spudding in
Santa Fe Drlg	Calabar Queen Rig 83	Tender	20.00	5000	Ideco E-1200	12,000		100	Nigeria	Operating
	Swamp Chief R-86	Barge	13.63	5000	National 110-UE	16,000	22	15	Nigeria	Operating
	Swamp Master R-83	Barge	20.00	5000	Ideco 2500-E	20,000	22	15	Nigeria	Operating
	Swamp Queen R-84	Barge	20.00	5000	National 1320	20,000	22	15	Nigeria	Operating
Sea Drlg Netherlands	Sedneth I	Semisubmersible	16.75	5000	OILWELL 3000	25,000	800	302	Port Harcourt	Drilling
Transworld Drlg Co	46	Submersible	13.63	5000	EMSCO EDA 4-60	20,000	70			Drilling
SOUTH AFRICA										
Sedco Maritime	Sedco K	Semisubmersible	21.25	10000	OILWELL E-3000	25,000/5"	900	355	Mossel Bay	Drilling
	Sedco 708	Semisubmersible	18.75	10000	OILWELL E-3000	25,000/5"	2000	873	Mossel Bay	Drilling
TANZANIA										
Blocker Drlg & Marine	Vermilion Bay	Barge	13.63	10000		30,000				Drilling
TUNISIA										
Ocean Drlg & Expl	Ocean Endeavor	Semisubmersible	18.75	10000	EMSCO C-3 Type 2	25,000	1000	1000	Aster No A-1	Drilling
	Ocean Voyager	Semisubmersible	20.00/13.63	2000/10000	EMSCO C-3 Type 2	25,000	1000	1000	Dougga No 1	Drilling

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with 4½ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		
					AFRICA (Cont'd)					
TUNISIA (Contd)										
Penrod Drlg	70	Semisubmersible	13.63	10000	National 1625-DE	30,000		600		Drilling
ZAIRE										
Diamond M	9-Diamond M Don E McMahon	Jackup	13.63	10000	OILWELL E-2000	25,000	100		Banana	Drilling
Key Intl Drlg	Key Victoria	Jackup	13.63	5000	OILWELL E-2000	20,000	200	250		Drilling
Von Rautenkranz Hermann	ITAG-102		10.00	3000						Drilling
					AUSTRALIA					
AUSTRALIA										
Atwood Oceanics	Regional Endeavour	Drillship	18.75	10000	National 1320	20,000/5"	1500		Brisbane	Drydocking
Loffland Bros	95	Platform	13.63	5000	M-CSCO U-1220	20,000			Snapper A	Working
Pool Australia	Rig 110 Offshore	Platform			Cabot/Franks	9,000			Bass Strait	Standby
South Seas Drlg	Southern Cross	Semisubmersible	18.75	10000	OILWELL E-2000	20,000	1500	100	West Australia	Operating
VICTORIA										
Richter Drlg Pty	12	Platform	13.63	5000	National 110-UE	16,000/5"			Bass Strait	Drilling
					CANADA					
UNDESIGNATED										
Global Marine Drlg	Glomar Adriatic III	Jackup	13.63	10000	National 1625-DE	25,000	300			Available
Ocean Drlg & Expl	Ocean Ranger	Semisubmersible	16.75	10000	EMSCO C-3 Type 2	25,000	3000	1500	Hibernia K-18	Drilling
ALBERTA										
Canadian Marine Drlg	Canmar Explorer I	Drillship	18.75	10000	Ideco 2100-E	25,000	600		Beaufort Sea	Drilling
	Canmar Explorer II	Drillship	18.75	10000	Ideco 2100-E	25,000	600	120	Beaufort Sea	Drilling
	Canmar Explorer III	Drillship	18.75	10000	National 1625-DE	25,000	1500	75	Beaufort Sea	Drilling
	Canmar Explorer IV	Drillship	18.75	10000	EMSCO C-3	20,000/5"	607	193	Beaufort Sea	Drilling
Sedco Maritime	Sedco 706	Semisubmersible	18.75	10000	OILWELL E-3000	25,000/5"	1300	308		Drilling
NEWFOUNDLAND										
Zapata Offshore	Zapata Ugland	Semisubmersible	13.63	10000	OILWELL E-3000	25,000	600	519		Drilling-Mobil
NOVA SCOTIA										
Rowan Companies	Rowan Juneaue	Jackup	13.63	10000	National 1625	25,000			Sable Island	
ONTARIO										
Underwater Gas Dev	Mr Neil	Jackup	10.00	3000	Ideco H-525-D	8,000	80	80	Central Lake Erie	
	Telesis	Drillship	8.00	2000	National T-20	5,000	210	210	Central Lake Erie	
	Timesaver II	Jackup	8.00	2000	EMSCO GB-250	5,000	100	100	Central Lake Erie	
					EUROPE					
FRANCE										
Global Marine Drlg	Glomar Biscay I	Semisubmersible	18.75	10000	OILWELL E-3000	25,000	600		Stavanger	Elf
GERMANY										
Deutsche Tiefbohr	T-24		13.63	10000	National 80-B UE	13,000				Available
Penrod Drlg	81	Jackup	13.63	10000	National 1320-UE	25,000				Drilling
Von Rautenkranz Hermann	ITAG-103		11.00	10000	Wilson Mogul 42	9,000				Workover
	ITAG-104		12.00	3000	Wilson Mogul 42	6,000				Drilling
	ITAG-108		13.63	5000	Wilson M-75	10,000				Drilling
	ITAG-22		13.63	10000	National 110-M	16,000				Drilling
	ITAG-23		13.63	10000	OILWELL 2000-E	20,000				Drilling
GREECE										
Dan-Tex Intl	Dan Baron	Drillship	18.75	10000	Ideco E-3000	20,000	1000			Drilling
Penrod Drlg	58	Jackup	13.63	10000	National 1625-DE	30,000	210		North Aegean Sea	Drilling
IRELAND										
Southeastern Drlg Serv	Sedco 700	Semisubmersible	21.25	10000	OILWELL E-2000	25,000	1500	1250	Blk 35/8-2	Drilling
ITALY										
Dyvi Offshore	Norkong		13.63		M-CSCO	20,000	250	250	Adriatic	Drilling
Global Marine Drlg	Glomar Grand Banks	Drillship	18.75	10000	National 1625-DE	25,000	600	600	Mila 6/Sicily	Montedison
Ocean Drlg & Expl	Ocean Champion	Jackup	21.25/13.63	2000/10000	National 1625-DE	25,000	250	250	Mediterranean Sea	Repairs
Offshore Co	Discover Seven Seas	Drillship	16.75	10000	EMSCO C-3 Type II	25,000/5"	6000	4500	Mediterranean Sea	Working
Pool-Intairdril	446	Platform	13.63	5000	OIME 1000	10,000			Adriatic Sea	Working-AGIP
	447	Platform			OIME 1000				Adriatic Sea	
Reading & Bates Drlg	Mr Jack	Jackup	20.00	10000	OILWELL E-3000	25,000/5"	300	105		AGIP Until 12/81
Saipem	Black Dog	Jackup	13.58	10000	OILWELL E-2000	21,000	300			Under Tow
	Perro Negro	Jackup	13.63	10000	Ideco P E-2500	21,000	130		Tiziana 1	Drilling
	Scarabeo 2	Semisubmersible	18.75	10000	Ideco P E-2500	21,000/5"	600		Katia 1	Drilling
	Scarabeo 4	Semisubmersible	18.75	10000	National 1625	25,000	1300		Plinio Sud 1	Working
	5853	Platform	13.63	5000	PCB 14				Working Over	
	5890	Platform	13.58	10000	Ideco E-2100	25,000			Adriatic	Idle
MEDITERRANEAN SEA										
Foramer	Pelican	Drillship	13.63	10000	National 1625-DE	25,000	1100			Totac
SPAIN										
Salvesen Offshore Drlg	Dalkeith				Ideco 3000	25,000		1000	Mediterranean Sea	Drilling
	Dalkeith (Prev Wingate)	Drillship	18.75	10000	Ideco E-3000	20,000	1000	220	Mediterranean Sea	Drilling
Sedco Espana SA	Sedco I	Semisubmersible	16.75	5000	OILWELL E-3000	25,000	1000	309	T'gona	
UNITED KINGDOM										
Santa Fe Drlg	Rig 111/112 Thistle	Platform	21.75	5000	OILWELL 3000-E	20,000		540	Thistle Field	Operating
YUGOSLAVIA										
Pancnorse Drlg	Pacnorse I	Drillship	18.75	10000	EMSCO C-3 Type II	30,000	5000	3000	Yugoslavia	Drydock-Germany

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with 4½ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		
MEXICO										
BAY OF CAMPECHE										
Perforadora Mexico S/A	D/B Reforma	Drillship	18.75		National 1625-DE	25,000	600	228		
	D/B Revolucion	Drillship	18.75	10000	National 1625-DE	25,000	600	150		
	Reforma	Drillship	18.75	10000	National 1625-DE	25,000	600	228		
	Revolucion	Drillship	18.75	10000	National 1625-DE	25,000	600	150		
CAMPECHE										
Rowan Companies	Rowan Louisiana	Jackup			National 1625-DE		3000	350	Gulf of Campeche	
	Rowan-Texas	Jackup	13.63	10000	National 1320-UE	25,000/5"	225	225	Gulf of Campeche	Drilling
MIDDLE EAST										
ABU DHABI										
Foramer	Ile de France	Jackup	13.63	5000	National 1625-DE	25,000	200		Arabian Gulf	Adma
	Ile du Levant	Jackup	13.63	5000	National 1320-DE	20,000	150		Arabian Gulf	
Foramer (Interdrill)	Tourmaline	Jackup	10.00	5000	National 80-B	12,000	100		Arabian Gulf	Zadco
Forex-Neptune	Trident 5	Jackup	10.00	5000	Ideco E-900	12,000	150	150		Operating
	Trident-III	Jackup	13.63	5000	Gar-Den 2100-E	25,400		300		Drilling
Japan Drlg	Hakury U-VI	Jackup	13.63	5000	National 1320-UE	20,000	180	53	UAE	Drilling
National Drlg	Al Ghallan	Jackup	13.63	5000	National 1320-UE	2,000	150	125	Zakum Field	Drilling
	Al Ittihad	Jackup	13.63	5000	National 1320-UE	20,000	150	125	Hair Dalme	Drilling
	Al Yasat	Jackup	13.63	5000	National 1320-UE	20,000	150	125	Zakum Field	Drilling
	Diyina	Jackup	13.63	5000	National 1320-UE	20,000	150	125	Zakum Field	Drilling
	Junana	Jackup	13.63	10000	National 1320-UE	20,000	150	125	Zakum	Drilling
Penrod Drlg	56	Jackup	13.63	10000	National 1625-DE	30,000	150	150		Drilling
	57	Jackup	13.63	10000	National 1625-DE	30,000	150	150		Drilling
Sedco Dubai	Sedco 160	Jackup	13.63	5000	EMSCO C-2	25,000	160	100	ADOC Conces'n	Spud Date 6/7/81
	Sedneth 201	Jackup	13.63	10000	EMSCO C-2	25,000	200	100	ADMA Conces'n	Under Construction
	Sedneth 202	Jackup	13.63	10000	EMSCO C-2	25,000	200	100	ADMA Conces'n	Under Construction
Western Oceanic	Apollo III	Jackup	13.63	10000	EMSCO C-3 II	20,000/5"	100			Under Construction
	Apollo IV	Jackup	13.63	10000	EMSCO C-350	20,000/5"	100			Under Construction
ARABIAN GULF										
Transocean Drlg	Transocean No 5	Jackup	13.63	10000	EMSCO C-3 Type II	25,000	300			Working
DUBAI										
Atwood Oceanics	Bull Run	Tender	13.63	5000	OILWELL E-2000	20,000/5"	400	377	Arabian G-Dubai Fateh Q-4	Drilling
IRAN										
Reading & Bates Drlg	M G Hulme	Jackup	20.00	10000	National 1320-UE	25,000	250			
Seacrest Drlg	Seacrest Bay	Jackup	13.63	10000	OILWELL E-3000	25,000/5"	250	250	Pars Field	Drilling
PERSIAN GULF										
Zapata Offshore	Chaparral	Jackup	13.63	10000	OILWELL 3000-E	25,000	240	53		Drilling-Zadco
	Heron	Jackup	13.63	10000	National 1625-DE	25,000	300	41		Drilling-Zadco
QATAR										
Forex-Neptune	Trident II	Jackup	20.00	10000	Gar-Den 2100-RE	25,400		300		Drilling
Santa Fe Drlg	Rig 103	Jackup	20.00	5000	EMSCO C-2	20,000	250	200	Qatar	Operating
SAUDI ARABIA										
Arabian Drlg	Arabdrill 2	Tender			National 110	19,000		200	Arabian Gulf	Drilling
Loffland Bros	Oceanmaster III-R-150	Jackup	13.66	3000	M-CSCO U-712-A	14,000	160		Manifa Field	Working
	Orville Fisher/Rig 183	Platform	13.63	5000	M-CSCO U-914-C	18,000				Dry Dock
Offshore Co	Bahram	Jackup	13.63	5000	Ideco ED-1200	13,000	200	50		Working
	Jubilee	Jackup	13.63	5000	EMSCO A-1500-E	20,000	246	135		Working
	North Star	Jackup	13.63	5000	National 1320-DE	20,000	250	43		Working
Pool Arabia	142-Offshore	Jackup	13.63	5000	National 80-B	12,000	150		Arabian Gulf	Working
	143	Jackup	10.00	5000	OIME 1000	12,500	160	120	Arabian Gulf	Working
	144	Jackup	13.63	5000	OIME 1000-E	10,000	160		Arabian Gulf	Working
	145	Jackup	13.63	5000	OIME 1000-E	10,000	160		Arabian Gulf	
Reading & Bates Drlg	Ron Tappmeyer	Jackup	20.00	10000	OILWELL E-3000	20,000	300			ARAMCO Until 5/83
Rowan Companies	Rowan-Alaska	Jackup			National 1625-DE	30,000	350		Ras Tanaur	
Rowan Intl	Rowan-New Orleans	Jackup	13.63		National 1324-UE	25,000/5"	225	225	Ras Tanaur	
SHARJAH										
Dolphin Intl	60	Tender/Jackup	13.63	10000	National 1320-UE	20,000	225		Yard	
UAA										
Transocean Drlg	63	Jackup	13.63	5000	EMSCO C-3 Type II	25,000	250			Drilling
UAE										
Interocean Drlg SA	Interocean III	Jackup	13.63	10000	National 1325-UE	20,000	300	48		Drilling
Offshore Co	Antares	Jackup	10.00	5000	National 130	12,000	115	80		Working
	Hustler	Jackup	12.00	5000	EMSCO A-550	10,000	90	62		Working
	Jupiter	Jackup	13.63	10000	National 1320-UE	20,000				Enroute
	Rig 54	Jackup	13.63	5000	National 130-E	20,000	150	73		Working
Sedco Dubai	Sedneth II	Jackup	20.00	5000	OILWELL 3000-E	25,000	200	180	Abu Dhabi	Drilling
	75	Jackup	20.00	5000	OILWELL 96	20,000	100		Abu Dhabi	Drilling
YEMEN										
J L Offshore	Dan Queen	Semisubmersible	18.75	10000	National 1320-UE	20,000		1000		Drilling
NORTH SEA										
UNDESIGNATED										
Odfjell Drlg & Consulting	Deep Sea 722 Levi[illegible]	Jackup			National 37½	25,000		300		
	Deepsea Saga H-3				National 49½	25,000		1500		
	Gulnare Pentagone				National 49½	25,000		1000		
Wilh Wilhelmsen	Treasure Finder SS H-3				EMSCO C-3 Type 2	25,000		1000		
	Treasure Hunter				EMSCO C-3 Type 2	25,000				
	Treasure Seeker SS H-3				EMSCO C-3 Type 2	25,000		1250		
DENMARK										
Dyvi Drlg A/S	J/U Dyvi Beta (Trigone 1)	Jackup	21.25	2000	National 1320-UE	25,000	400	350	Dan Field	Drilling
Maersk Drlg	Maersk Explorer	Jackup	13.63	10000	National 1320-UE	25,000	205	120	Gom Field	Development Drlg

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with 4½ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		
					NORTH SEA (Cont'd)					
FINLAND										
Global Marine Drlg	Glomar Arctic I	Semisubmersible	18.75	15000	OILWELL E-3000	25,000	1500			Available
IRELAND										
Smedvig Drlg	West Venture (Norrig V)		18.75	10000	EMSCO 3-C	30,000/5"	1200	1100	63/10	Drilling
NETHERLANDS										
Penrod Drlg	64	Jackup	13.63	10000	National 1625-DE	30,000	210			Drilling
	67	Jackup	13.63	10000	National 1625-DE	30,000	210		North Sea	Drilling
Santa Fe Drlg	Britannia R-65	Jackup	20.00	10000	National 1320-DE	20,000	160	140	Netherlands	Operating
Transocean Drlg	Transocean No 1	Jackup	11.00	10000	EMSCO A-1500-E	20,000				Drilling
	Transocean No 2	Jackup	13.63	10000	National 1625-DE	20,000	150			
	Transocean No 4	Jackup	13.63	10000	National 1320-UE	25,000	160			
NORWAY										
Dyvi Drlg A/S	D/R Dyvi Alpha	Jackup	18.75	10000	National 1625-DE	25,000	1000	800	Frigg Field	Drilling
Dyvi Offshore A/S	CJ-46-1	Jackup	13.63	10000	National 1320-UE	25,000	250	250	Norway	
	CJ-46-2	Jackup	13.63	10000	National 1320-UE	25,000	250	250	Norway	
	Dyvi Delta		18.75	10000	OILWELL	25,000	3000	1500	Norway	
Fearnley Offshore	Fernstar		18.75	10000	EMSCO Type II	25,000	1000		North Sea	Drilling
	Fernstate		18.75	10000	EMSCO C-3 Type II	25,000	1000		North Sea	Drilling
Global Marine Drlg	Glomar Biscay II	Semisubmersible	18.75	10000	National 1625-DE	25,000	600	600		Esso
Golar-Nor Offshore A/S	Nortroll (Aker H-3)	Semisubmersible	18.75	10000	National 1625-DE	25,000	1000	1000		
Intl Chandlers	Nautilus 3	Platform	13.63	10000	National 1320-UE	20,000	260	260	Albuskjell Z/4F	Drilling
	Nautilus 4	Platform	13.63	10000	National 1320-UE	20,000	260	260	Albuskjell 1.6A	Logging
	Sedco PSSI	Semisubmersible							Eldfisk 2/7B	Surveying
Loffland Bros	44	Platform	13.63	5000	M-CSCO U-1220-EB	20,000			Phillips Eldfisk	Working
	51	Platform	13.63	5000	M-CSCO U-1220-EB	20,000		467	Statfjord A	Working
Ross Drlg	Koldnes No 219	Bingo 3000	18.75	10000	OILWELL E-3000	25,000	1500			Under Construction
	Neptuno Nordroug	Aker H-3	18.75	10000	National 1625-DE	25,000	1500	394	15-9-7	
	Ross Rig	Aker H-3	18.75	10000	National 1625-DE	25,000	1250	597	7119/12-2	Drilling
Smedvig Drlg	TBN-Bingo-300 West Vanguard	Semisubmersible	18.75	10000	EMSCO 3000	25,000/5"	1500			Under Construction-Del 10/82
Southeastern Drlg Serv	Sedco 703	Semisubmersible	18.75	10000	OILWELL 3000	25,000	2000	1250	Blk 34/2-2	Logging
	Sedco 707	Semisubmersible	21.25/13.63	2000/10000	OILWELL E-3000	25,000	2000	234	Blk 7/12	Drilling
Stavanger Drlg A/S	Henrik Ibsen	Semisubmersible	18.75	10000	Gar-Den 3000-E	30,000	1200	1200	Ekofisk	
	89 Pentagone	Semisubmersible	18.75	10000	Gar-Den 3000-E	30,000	1200	1200	Ekofisk	
SCOTLAND										
Loffland Bros	43	Platform	13.63	10000	Ideco E-3000	20,000			Shell Brent C	Working
	81	Platform	13.63	5000	M-CSCO U-1220-EB	20,000		450	Chevron Ninian Central	Working
	82	Platform	13.63	5000	M-CSCO U-1220-EB	20,000		450	Ninian Central	Working
	83	Platform	13.63	5000	M-CSCO U-1220-EB	20,000			Ninian South	Working
	84	Platform	13.63	5000	M-CSCO U-1220-EB	20,000			Ninian South	Working
Marine Drlg SA	Sedco 709	Semisubmersible	16.75	10000	OILWELL E-3000	25,000	6000	1700	North Sea	Working
Transworld Drlg Co	58	Semisubmersible	13.63	5000	EMSCO C-3000	20,000	600			Drilling
Zapata Offshore	Zapata Nordic	Jackup	13.63	10000	EMSCO C-3 Type II	20,000	300	154		Drilling-BENOC
SPAIN										
Dolphin Intl	15	Platform	13.63	10000	EMSCO C-2	25,000			Casablanca Field	En Route
UNITED KINGDOM										
Atlantic Drlg	Bendoran Aker H-3	Semisubmersible	21.25	2000	National 1625-DE	20,000/5"	850	559	Blk 13/30-1	Drilling
	Benurackie	Semisubmersible	21.25	2000	National 1625-DE	20,000/5"	850	455	Blk 20/2-1	Drilling
Bawden Drlg	34	Platform	13.63	5000	National 1320-UE	22,000			North Sea	Drilling
	35	Platform	16.63	5000	National 1320-UE	20,000			North Sea	Drilling
	36	Platform	13.63	5000	National 1320-UE	22,000			North Sea	Drilling
	37	Platform	12.00	3000	Wilson 75-E	8,500			North Sea	Drilling
	39	Platform	20.00	5000	National 1320-UE	22,000			North Sea	Drilling
	40	Platform	13.63	5000	National 1363-UE	20,000			North Sea	Drilling
	41	Platform	13.63	5000	National 1320-UE	20,000			North Sea	Drilling
	42	Platform	13.63	5000	National 1320-UE	22,000/5"			North Sea	Drilling
BP Petroleum Dev	Forties Alpha	Platform	20.00	2000	National 110-UE	16,000	400		Forties Field	Operational
	Forties Bravo	Platform	20.00	2000	National 110-UE	16,000	400		Forties Field	Operational
	Forties Charlie	Platform	20.00	3000	National 110-UE	16,000	400		Forties Field	Operational
	Forties Delta	Platform	20.00	2000	National 110-UE	16,000	400		Forties Field	Operating
	Sea Conquest Aker H-3	Semisubmersible	20.00	10000	National 1625	25,000	1200		211/12	Operational
Deutsche Tiefbohr	T-20	Platform	13.63	10000	National 1320-UE	18,000		140	Blk 211/20	Drilling
	T-21	Platform	13.63	10000	National 1320-UE	18,000		140	Blk 211/29	Drilling
	T-25	Platform	13.63	10000	National 1320-UE	18,000		140	Blk 211/23	Drilling
Dixilyn-Field Drlg	96	Semisubmersible	18.75	10000	National 1625	25,000	1200	1200	Blk 211-27	Drilling
	97	Semisubmersible	18.75	10000	EMSCO C-111-2	25,000	1200		Blk 2-5-14	Drilling
Forex-Neptune	Pentagone 84	Semisubmersible	13.63	10000	Gar-Den 3000-E	24,000/5"		660	UK Sector	Drilling
Kingsworth Marine Drlg	Dundee Kingsworth Aker H-3	Semisubmersible	18.75	10000	National 1625-DE	24,000		1000	Continental Shelf	Drilling BP/June Conoco
	Kingsworth UK Aker H-3	Semisubmersible	18.75	10000	National 1625-DE	24,000		1250	Continental Shelf	Drilling BP
KCA Drlg	51	Platform			National 1320-UE	20,000			North Sea	Drilling
	52	Platform	21.25	5000	National 1320-UE	20,000			North Sea	Drilling
Ocean Drlg & Expl	Ocean Bounty	Semisubmersible	16.75	10000	EMSCO C-3 Type II	25,000	1200	1200	Blk 21/38-3	Drilling
	Ocean Kokuei	Semisubmersible	20.00/13.63	2000/10000	EMSCO C-3 Type 2	25,000	600	600	15/16-11	Drilling
Offshore Co	Chris Chenery	Semisubmersible	13.63	10000	National 1625-DE	20,000/5"	600	400	North Sea	Working
	534	Drillship	16.75	10000	National 1625-DE	25,000	3000		North Sea	Working
Penrod Drlg	80	Jackup	13.63	10000	National UE	30,000				Drilling
Rowan Intl	Charles Rowan	Jackup	13.63	10000	National 1625	25,000	300	5	Blk 49/26	Drilling
Santa Fe Drlg	82	Platform	20.00	5000	National 1320-UE	20,000			United Kingdom	Operating
Sea Drlg Netherlands	Sedneth 701	Semisubmersible	21.25	10000	OILWELL E-3000	25,000	1500	260	Blk 16/29-A7	Drilling
Southeastern Drlg Serv	Sedco H	Semisubmersible	21.25/13.63	2000/10000	OILWELL 3000	25,000	800	250	Blk 13/27/1	Drilling
	Sedco 704	Semisubmersible	18.75	10000	OILWELL 3000	25,000	1500	280	Blk 16/26-3	Drilling
Western Oceanic	Apollo II	Jackup	13.58	10000	EMSCO C-3	20,000/5"	300		North Sea	Under Construction

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with $4\frac{1}{2}$ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		
					NORTH SEA (Cont'd)					
UNITED KINGDOM (Contd)										
Western Oceanic	Western Pacesetter I	Semisubmersible	18.75		National 1625-DE	25,000	600		North Sea	Contracted-Phillips
	Western Pacesetter III	Semisubmersible	18.75	10000	EMSCO C-3 II	25,000	1200		North Sea	Contracted-Shell
	Western Pacesetter II	Semisubmersible	18.75	10000	National 1625-DE	25,000	1200		North Sea	Contracted-Chevron
					SOUTH AMERICA					
ARGENTINA										
Diamond M	Epoch	Semisubmersible	16.75	10000	OILWELL E-3000	30,000	1200	1000		Under Tow
Interocean Drlg SA	Interocean II	Jackup	13.63	10000	EMSCO C-2	20,000	300	175		Drilling
Rio Colorado SA	Rio Colorado 1	Jackup	13.63	5000	National P-160	20,000	300	100	TDF 1	Drilling
BRAZIL										
Amoshore Drlg	Discoverer 511	Drillship	18.75	10000	Ideco E-2100	20,000	2000	190		Working
Dolphin Intl	Bayoy Bolphin III	Tender/Jackup	13.63	10000	EMSCO A-1500	20,000	230		Ubarana	Drilling
	95	Tender/Platform	13.63	5000	M-CSCO U-1220-EB	25,000	300		Xareu Field	Drilling
Forex-Neptune	Neptune Gascogne	Jackup	13.63	10000	National 1625-UE	25,000	290	290		Drilling
Key Intl Drlg	Key Biscayne	Jackup	16.63	1363	National 1320-UE	20,000	250	250		Drilling
	Key Gibraltar	Jackup	13.63	10000	OILWELL E-2000	25,000	300	280		Drilling
	Key West	Jackup	13.63	10000	EMSCO C-3	25,000	350	350		Drilling
Maersk Drlg	Maersk Pioneer SS	Semisubmersible	18.75	10000	EMSCO C-2 Type II	20,000	600	180	Compos Field	Drilling
Maersk Drlg/Odeco	Zephyr II	Semisubmersible	21.50	10000	National 1625-DE	25,000	600	420	Compos Area 1-RJS-92	Drilling
Marlin Drlg	Marlin No 7	Semisubmersible	13.63	10000	National 1625-DE	30,000	1000	114		
Ocean Drlg & Expl	Ben Ocean Lancer	Drillship	16.75	10000	Gar-Den 3000	25,000	3000	3000	1-SCS-9A	Drilling
	Ocean Cyclone Ship	Drillship	16.75	5000	National 1625	25,000	600	600	1-RJS-137	Drilling
	Zephyr I	Semisubmersible	21.25	10000	EMSCO 3-C T-2	25,000	600	600	1-RJS-171	Drilling
	Zephyr II	Semisubmersible	21.25	10000	EMSCO C-3 TS	25,000	600	600	1-RJS-170	Drilling
Odeco/Maersk Drlg	Zephyr I	Semisubmersible	21.50	10000	EMSCO C-3 Type II	25,000	600	400		Drilling
Offshore Co	Orion	Jackup	13.63	10000	National 1320-DE	20,000	275	229	Amapa	Working
Penrod Drlg	59	Jackup	13.63	10000	National 1625-DE	30,000	220	95		Repairs
	62	Jackup	13.63	10000	National 1625-DE	30,000	330	308		Drilling
	71	Semisubmersible	13.63	10000	National 1625	30,000	1000	970		Drilling
	72	Semisubmersible	13.63	10000	National 1625-DE	30,000	300			Drilling
	75	Semisubmersible	13.63	10000	National 1625-DE	30,000	2000	677		Drilling
Reading & Bates Drlg	C E Thornton	Jackup	20.00	10000	DWS E-3000	25,000	300			Petrobras Until 7/82
Rowan Companies	Rowan Midletown	Jackup			National 1625				Salvador	
Salen Protexa Drlg	Salenergy VI	Jackup	13.63	10000	M-CSCO U-1220-BE	25,000	250			Under Construction
Sedco	Sedco 135-F	Semisubmersible	13.63/21.25	10000/2000	OILWELL 3000-E	25,000/5"	800	430	Campos Basin	Drilling
Sedco Intl SA	Sedco 135-D	Semisubmersible	16.75	5000	OILWELL 3000-E	25,000/5"	800	377	Campos Basin	Drilling
Sedco Maritime	Sedco 702	Semisubmersible	21.25	10000	OILWELL E-3000	25,000/5"	1200	346	Amazon Delta	Drilling
Transworld Drlg Co	61	Semisubmersible	13.63	10000	EMSCO A-1500-E	20,000	600			Drilling
Tropic Drlg & Expl	DS Tainaron	Drillship	18.75	10000	National 1320-DE	30,000	1000	500	Campos	Drilling
CHILE										
Diamond M	Diamond M General	Semisubmersible	18.75	10000	OILWELL E-3000	30,000	1500	1000	West Coast	Drilling
	Magallanes	Jackup	13.63	5000	OILWELL E-3000	25,000	150		Strait of Magellan	Drilling
	Nugget	Jackup	13.63	5000	OILWELL E-3000	30,000	300	150	Strait of Magellan	Drilling
COLOMBIA										
Rowan Intl	Rowan-Houston				National 1325-UE	25,000		225		
VENEZUELA										
Loffland Bros	R-71-WO	Barge			Ideco H-25				Lake Maracaibo	Workovers
	V-101	Barge	6.00	5000	Ideco 7-11	10,000			Lake Maracaibo	Workovers
	V-105	Barge	10.00	5000	M-CSCO U-914-B	18,000			Lake Maracaibo	Working
	V-114	Barge	10.00	5000	M-CSCO U-914-C	18,000			Lake Maracaibo	Working
	V-116	Barge	10.00	5000	National 130	20,000			Lake Maracaibo	Working
Ocean Drlg & Expl	Ocean Rover	Semisubmersible	20.00/13.63	2000/10000	EMSCO C-3 Type 2	25,000	600	600	PMO-2X	Drilling
Offshore Co	Estrellita T-27	Tender/Jackup	13.63	5000	National 1320-UE	18,000	150	95	Lake Maracaibo	Working
	Polarcub	Tender/Jackup	12.00	5000	National 110	16,000	100	95	Lake Maracaibo	Working
	Rig 60/OV-1	Tender/Jackup	10.00	5000	EMSCO A-1100-E	16,000	100	100	Lake Maracaibo	Working
Perforaciones Alta Mar CA	Rig I	Tender			National 1625	20,000				
	Rig III	Tender			National 130	20,000				
Rowan Companies	Rowan Odessa	Jackup	13.63	10000	National 1625				Gulf of Paria	
Santa Fe Drlg	Orinoco I (R132)	Barge	21.25	10000	OILWELL E-2000	20,000	20		Orinoco	Under Construction-Del 6/81
	Reina Del Lago	Barge	12.00	3000	National 80-E	14,000	100	100	Lake Maracaibo	Operating
	Rey Del Lago	Barge	12.00	3000	National 80-E	14,000	100	100	Lake Maracaibo	Operating
					SOUTHEAST ASIA					
UNDESIGNATED										
Reading & Bates Drlg	Roger W Mowell	Jackup	13.63	10000	National 1625-DE	25,000	300			Committed
Santa Fe Drlg	141	Jackup	13.63	10000	OILWELL E-2000	20,000				Under Construction
BRUNEI										
Reading & Bates Drlg	Chris Seeger	Jackup	29.50	10000	Ideco 2500	20,000	210			Brunei Shell Petroleum
	I J Pierce	Platform/Tender	20.00	5000	OILWELL 840-E	18,000				Brunei Shell Petroleum
	J W Nickle	Platform/Tender	20.00	5000	OILWELL 840-E	18,000				Brunei Shell Petroleum
EAST MALAYSIA										
Atwood Oceanics	Margie	Semisubmersible	18.75	10000	National 1320	20,000/5"	600	274	Sarawak B-16-1	Drilling
Forex-Neptune	Grand Large	Tender	13.63	5000	Gar-Den 1500-UE	21,700	250	250	Sarawak	Drilling
	Trident 1	Jackup	13.63	10000	Gar-Den 1500-UE	21,700		250		Drilling
Maersk Drlg	Aquadril 1 SCP	Platform	13.63	5000	EMSCO C-2 Type II	15,000				Drilling
Southeastern Ocean Drlg	Sedco 135-A	Semisubmersible			OILWELL 3000	25,000	600		Sarawak	Workiing
INDIA										
Atlantic Drlg	Benlomond	Drillship	18.75	10000	EMSCO C-2 Type		1000	302	Andaman Islands ANI-2	Drilling
Atwood Oceanics	Fredericksburg	Drillship	18.75	10000	EMSCO C-2 Type III	20,000/5"	750	446		
	Gettysburg	Barge	18.75	10000	National 1320	20,000/5"	600	167	Andaman Island	Drilling
	Shenandoah	Jackup	20.00	10000	EMSCO C-2	20,000/5"	300	246	India-Arabian Sea-Plat NP	Drilling

SOUTHEAST ASIA (Cont'd)

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with 4½ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		
INDIA (Contd)										
Reading & Bates Drlg	W T Adams	Jackup	13.63	2000	National 1525-E	25,000	300		Bombay High	Shell Sarawak 10/83
Salvesen Offshore Drlg	Dalmahoy	Drillship			EMSCO C-3	25,000		700	Bombay High	Drilling
INDONESIA										
Atwood Oceanics	Chancellorsville	Drillship	18.75	10000	EMSCO C-2	20,000/5"	1000	423		Drilling
	Mission Viking	Barge	18.75	10000	National 1625-DE	20,000/5"	600	342	NSB-J4	Drilling
Dolphin Intl SA	Bali/Green Dolphin	Tender/Jackup	13.63	10000	EMSCO A-100-E	16,000	150		Java Sea	Workover
Fluor Drlg Serv	Western Offshore IV	Barge	16.75	5000	National 1320-DE	20,000/5"	600	492	"L" 2-X	Drilling
Forex-Neptune	N-110-12/Gavrinis	Barge	13.68	5000	National 110-UE	21,700	25	25	East Kalimantan	Drilling
	N-110-13/Izenah	Barge	13.63	5000	National 110-UE	21,700	25	25	East Kalimantan	Drilling
Japan Drlg	Hakuryu IV	Jackup	13.63	10000	National 1625-DE	25,000	295	25	East Kalimantan	Drilling
Ocean Drlg & Expl	Ocean Hurricane	Drillship	16.75	10000	National 1625	25,000	600	600	Kapak KH-3X	Drilling
Offshore Co	Discoverer III	Drillship	16.75	5000	National 1625-DE	20,000	600		Gulf of Thailand	Working
Reading & Bates Drlg	D K McIntosh	Jackup	30.00	10000	National 1320	20,000	250			IIAPCO Until 9/81
	Dickson M Saunders	Jackup/Tender	20.00	5000	National 80-B	15,000	160			Contracted IIAPCO
	J W McLean	Jackup	20.00	10000	National 130	20,000	225			ARCO Until 6/81
Rowan Intl	Rowan Anchorage	Jackup	13.63	5000	National 1320-UE	25,000/5"			East Kalimantan	
	Rowan-Morgan City (Fxd Ht)	Barge	13.63	5000	National 1320-UE	25,000	20		East Kalimantan	
Santa Fe Drlg	Santa Fe Explorer	Jackup	20.00	5000	Unit Rig U-914	15,000	160	120	Java	Operating
	124	Jackup	13.63	5000	National 1625-DE	20,000	250		Java	Operating
Western Oceanic	Western Polaris I	Jackup	13.63	10000	National 1320-UE	20,000/5"	250			Contracted-Shell
Zapata Offshore	Topper II	Jackup	13.63	5000	National 110-UE	16,500	115	25		Drilling-Marathon
JAPAN										
J L Offshore	Dan Duke	Jackup	13.63	10000	National 1320-UE	20,000	300			Delivery Oct 81
	Dan Earl	Jackup	13.63	10000	National 1320-UE	20,000	205			Delivery Feb 82
	Dan King	Jackup	13.63	10000	National 1320-UE	20,000	205			Delivery Jul 81
Japan Drlg	Hakuryu III	Semisubmersible	18.75	10000	EMSCO C-31-11	30,000	1000	266	East China Sea	Drilling
	Hakuryu V	Semisubmersible	18.75	10000	EMSCO C-3 II	30,000	1640	246	Sea of Japan	Drilling
	Hakuryu VII	Jackup	13.63	10000	National 1320-UE	20,000	150		Sea of Japan	Drilling
Offshore Co	John Shaw	Semisubmersible	18.75	10000	EMSCO C-3 Type II	30,000	1500			Under Construction
KOREA										
Santa Fe Drlg	135	Semisubmersible	18.75	10000	OILWELL E-3000	25,000	1500			Under Construction
	140	Semisubmersible	18.75	10000	OILWELL E-3000	25,000	1500			Under Construction
MALAYSIA										
Fluor Drlg Serv	Western Offshore VII	Barge	16.75	5000	Gar-Den 2100-RE	25,000/5"	600	207	Bedong 2	Drilling
J L Offshore	Danwood Ice	Drillship	18.75	10000	National 1320-UE	20,000		1000	Sarawak	Drilling
Loffland Bros	46	Platform	13.63	5000	M-CSCO U-914-CE	18,000			Tapis C	Drilling
	47	Platform	13.63	5000	M-CSCO U-914	18,000				Stacked
Ocean Drlg & Expl	Ocean Digger	Semisubmersible	18.75	10000	EMSCO A-1500	25,000	600	600	Duyong 6H-32.3	Drilling
Reading & Bates Drlg	D R Stewart	Jackup	13.63	10000	OILWELL E-3000	25,000	300		Miri	Shell Sarawak 10/83
Sedco	Sedco 135-E				OILWELL 3000	25,000		600	Kuala Belait	Working
NEW ZEALAND										
Intl Chandlers	Sedco 445	Drillship	16.75	10000	OILWELL E-3000	25,000	3000		New Plymouth	Working
PHILIPPINES										
Dixilyn-Field Drlg	95	Semisubmersible	18.75	10000	National 1625-DE	25,000	600		Cadlao	Drilling
Forex-Neptune	Trident 6	Jackup	13.63	10000	Gar-Den 1500-E	21,700	300	200		Drilling
Ocean Drlg & Expl	Ocean Prospector	Semisubmersible	18.75	10000	EMSCO C-3 Type 2	25,000	1000	1000	Pandom No 1	Drilling
Penrod Drlg	74	Semisubmersible	13.63	10000	National 1625-DE	30,000	1700			Drilling
SARAWAK										
Reading & Bates Drlg	Charlie Graves	Platform/Tender	20.00	10000	National 1320-UE	25,000/5"				Shell Sarawak Until 7/83
SINGAPORE										
Forex-Neptune	45 Helirig	Barge	13.63	5000	Wilson EH-120	16,900		25		Reconversion
Houston Offshore Intl	Sabine IV	Jackup	13.63	10000	National 1320-UE	20,000	200			Under Construction
Keydril	Kep Singapore	Jackup	13.63	10000	National 1625	25,000	300			Under Construction
Reading & Bates Drlg	Harvey H Ward	Jackup	13.63	10000	National 1625	25,000	300			Committed
Zapata Offshore	Investigator	Drillship	13.63	5000	Ideco H-2500	16,500	450	129		Drilling-Pitco
	31	Jackup	13.63	15000	National 1625-DE	25,000	200			Under Construction
	32	Jackup	13.63	10000	National 1320	20,000	250			Under Construction
	33	Jackup	13.63	10000	National 1320	20,000	250			Under Construction
SOUTH KOREA										
Reading & Bates Drlg	Jim Cunningham	Semisubmersible	18.75	10000	National 1625-DE	25,000	1500			Committed
	M G Hulme Jr	Semisubmersible	18.75	10000	National 1625	25,000	1500			Available
TAIWAN										
Fluor Drlg Serv	Western Offshore IX	Drillship	18.75	10000	National 1625-DE	25,000/5"	750	380		Drilling
	Western Offshore VIII	Drillship	16.75	5000	National 1625-DE	25,000/5"	600	157	CBS-1	Drilling
Santa Fe Drlg	127	Jackup	13.63	5000	National 1320-UE	20,000	250			Under Construction-Del 6/81
	134	Jackup	21.25	10000	National 1320-UE	20,000	250			Under Construction-Del 12/81
	136	Jackup	13.63	10000	National 1320-UE	20,000	250			Under Construction
THAILAND										
Global Marine Drlg	Glomar Conception	Drillship	18.75	10000	National 1625-DE	25,000	1000	600	Gulf of Thailand	Union Oil
	Glomar Tender III	Tender	13.63	5000	National 1625-DE	25,000		600	Gulf of Thailand	Union Oil
Reading & Bates Drlg	E W Thornton	Drillship	20.00	5000	OILWELL E-3000	25,500	600			Contracted Texas Pacific
	W D Kent	Platform-Tender	21.25	5000	National 1320-UE	25,000/5"				Union Oil Until 6/82
Seacrest Drlg	Seacrest	Drillship	18.75	10000	OILWELL E-3000	25,000/5"	1000	1000	Gulf of Thailand	Drilling
USSR										
Japan Drlg	Hakuryu II	Semisubmersible	20.75	5000	EMSCO C-3 11	30,000	656	98	Sakalin Island	Drilling

UNITED STATES

Contractor	Rig name or no.	Type	Size (ID)	Pressure rating	Drwwks make & model	Rated drlg depth with 4½ in. pipe	Rated	Current	Location	Status
ALABAMA - UNDESIGNATED										
Ocean Drlg & Expl	Mr Charlie	Submersible	13.63	10000	EMSCO EDES	25,000	40	40		Option to OPCO

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with 4½ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		
UNITED STATES (Cont'd)										
ALABAMA - MOBILE										
Diamond M	Diamond M Eagle	Semisubmersible	18.75	10000	OILWELL E-3000	30,000	2000			Under Construction
	Diamond M Hunter	Semisubmersible	18.75	10000	OILWELL E-3000	30,000	1500			Under Construction
Penrod Drlg	65 Mobil	Jackup	13.63	10000	EMSCO C-3	30,000	210	128	Mobile Bay	Drilling
Rowan Intl	Barge 4	Barge	13.63	10000	National 1625-DE	30,000	22	14	Mobile Bay	
ALABAMA - MOBILE BAY										
Atlantic Pacific Marine	7	Barge	13.63	5000	OILWELL 2000	25,000	20			Drilling
CALIFORNIA - UNDESIGNATED										
Global Marine Drlg	Glomar Atlantic	Drillship	18.75	10000	National 1625-DE	25,000	3000	2000		Chevron
	Glomar Coral Sea	Drillship	18.75	10000	National 1625-DE	25,000	1500	1500		Chevron
	Glomar Grand Isle	Drillship	18.75	10000	National 1625-DE	25,000	600	600		Chevron
	Glomar Pacific	Drillship	16.75	10000	National 1625-DE	25,000	3000	2000		Exxon
	Glomar Platform I	Platform	13.63	5000	National 110-UE	16,000				Chevron
	Glomar Platform II	Platform	13.63	5000	National 110-UE	16,000				Chevron
Pool Offshore	Rig #10	Platform	13.63	5000	OIME 750	8,000		180	Platform Holly	Working
	Rig #4	Platform	10.00	5000	National T-45	6,000				Working
	Rig #421	Platform	13.63	5000	OIME 750	12,000		200	Platform Henry	Working
	Rig #422	Platform	13.63	5000	OIME 750	12,000		160	Platform Hope	Working
	420	Platform	13.63	5000	OIME 750	10,000		200		Working-Getty
	426	Platform	13.63	5000	OIME 750	10,000		130	Platform Emmy	Working
	427	Platform			OIME 1500	16,000				Working-Chevron
FLORIDA - CHARLOTTE HARBOR										
Offshore Co	Offshore Mercury	Jackup	13.63	10000	National 1320-DE	20,000/5"	250	115		Working
FLORIDA - ELBOW										
Rowan Co	Rowan Midland	Semisubmersible	13.63		National 1625	25,000				Blk 915
FLORIDA - PENSACOLA										
Fluor Drlg Serv	Mr Mel #59	Jackup	13.63	10000	National C-1625-DE	30,000	350	96	GOM Blk 973	Contracted-Mobil Oil
LOUISIANA - UNDESIGNATED										
Anderson-Barnett Drlg	1	Barge	10.00	5000	National 55	11,000	11	8		Drilling
	2	Barge	10.00	5000	Ideco M-2500	25,000	18	10		Drilling
	3	Barge	13.63	10000	Ideco E-3000	30,000	28			Drilling
Atlantic Pacific Marine	11	Barge	10.00	5000	Gar-Den DW-500R	9,000	13			Delivery 9-1-81
	12	Barge		5000	OILWELL E-2000	25,000	13			Delivery 11-1-81
	14	Barge		5000	OILWELL E-2000	25,000	13			
Booker Drlg	11	Platform	10.00	5000	Gar-Den 3000					Stacked
	90	Platform	10.00	5000	Gar-Den 500					Stacked
	951	Platform	10.00	5000	Gar-Den 1000	10,000				Under Construction-Available
	952	Platform	13.63	5000	Gar-Den 1000	10,000				Under Construction-Available
Chiles Drlg	Platform 2	Platform	13.63	10000	National 1320-UE	20,000				Under Construction
CRC Mallard Well Inc	35				Hyd	10,000		100	Gulf of Mexico	Drilling
Diamond M	Barge 14	Barge	13.63	5000	EMSCO J-1400	20,000	12	8	Gulf of Mexico	Drilling
	Barge 15	Barge	13.63	5000	Beth B-1013	14,000	10	8	Gulf of Mexico	Drilling
	Barge 16	Barge	13.63	5000	Ideco E-2500	25,000	12	8	Gulf of Mexico	Drilling
	Barge 26	Barge	13.63	5000	OILWELL 2000	20,000	12	8	Gulf of Mexico	Drilling
	Barge 40	Barge	13.63	5000	OILWELL 2000	25,000	12	8	Gulf of Mexico	Drilling
	Barge 5	Barge	13.63	5000	Brewster N-12-A	18,000	10	7	Gulf of Mexico	Drilling
	Gem	Jackup	13.63	5000	OILWELL E-3000	30,000	300	180	Gulf of Mexico	Drilling
	Rig 99	Jackup	13.63	5000	OILWELL 3000	30,000	300	45	Gulf of Mexico	Drilling
	41	Barge-Posted	13.63	5000	OILWELL 2000	25,000	18	16	Gulf of Mexico	Drilling
	42	Barge-Posted	13.63	5000	OILWELL 2000	25,000	18	12	Gulf of Mexico	Drilling
	46	Barge-Posted	13.63	10000	OILWELL E-3000	30,000	22		Gulf of Mexico	Drilling
	92	Platform	14.00	5000	National 110-UE	16,000			Gulf of Mexico	Drilling
	93	Platform	14.00	5000	National 110-UE	16,000			Gulf of Mexico	Drilling
	97	Platform	13.63	5000	OILWELL E-2000	25,000			Gulf of Mexico	Drilling
	94	Platform	13.63	5000	OILWELL E-2000	20,000			Gulf of Mexico	Drilling
	95	Platform	13.63	5000	OILWELL E-2000	25,000			Gulf of Mexico	Drilling
Dixilyn-Field Drlg	76	Submersible	13.63	5000	Brewster N-12-A	20,000	80	80		Available
Dolphin Intl	54	Tender/Platform	10.00	5000	Ideco H-725	20,000				Yard
	75	Platform	13.63	5000	National 110-UE	16,000				Yard
	78	Platform	13.63	5000	National 2320-UE	25,000				Yard
Glendel Drlg	Mr A W	Barge	13.63	10000	Brewster NE-12	25,000	12			Under Construction
	Mr Carl	Barge	13.63	10000	Brewster NE-12	25,000	12			Under Construction
Harris Well Serv	16	Barge	7.16	5000	M-CSCO U-36-A	10,000	12	12		Working
Helmerich & Payne Intl Drlg	90	Platform	13.63	5000	OILWELL E-3400	20,000		147	Gulf of Mexico	Available
Houston Offshore Intl	Sabine III	Jackup	13.63	10000	National 1320-UE	20,000	200			Under Construction
Keydril	Aleutian Key	Semisubmersible	18.75	10000	OILWELL E-3000	25,000		2000		Drilling
	Grand Key	Platform	13.63	10000	Ideco E-3000	25,000	80			Drilling
	Key Manhattan	Jackup	13.63	10000	National 1625	25,000	350			Drilling
Marlin Drlg	Marlin 4	Jackup	13.63	1000	National 1625-DE	25,000	150			Ship Yard-Repairs
Nicklos Drlg	Mr John 21	Barge			National 130					Gulf of Mexico
	20 Mr E J	Barge			National 130	20,000		12	Gulf of Mexico	
	27	Platform			National 110-UE	16,000		250		Gulf of Mexico
	30	Tender			National 110	16,000		240		Gulf of Mexico
Noble Drlg	24	Platform	13.63	10000	National 1625-DE	25,000			Avondale Shipyard	Stacked
	27	Platform	13.63	10000	Gar-Den 1100-E	18,000			Avondale Shipyard	Stacked
Offshore Co	Offshore Pegasus	Jackup	10.00	5000	National 110	16,000	125		Gulf Coast	Overhaul
Phoenix Management	#3	Posted Barge	10.63	10000	Gar-Den 2100-E	30,000/5"	21			Under Construction
Pool Offshore	Rig #11	Platform	13.63	5000	National 110-H	16,000				Job Waiting
Santa Fe Drlg	Blue Water No 2	Submersible	13.63	10000	National 1625-DE	25,000	55		Gulf of Mexico	Operating
	Blue Water No 4	Semisubmersible	16.75	10000	EMSCO C-3	25,000	1500		Gulf of Mexico	Operating
	Choctaw I	Semisubmersible	18.75	10000	National 1320-UE	20,000	800		Gulf of Mexico	Operating
	Mariner 3	Semisubmersible	16.75	10000	OILWELL E-2000	20,000	600	600	Gulf of Mexico	Operating
Temple Drlg	Cheyenne	Jackup	13.63	10000	OILWELL E-2500	25,000	200			Under Construction
	Tejas	Barge	13.63	10000	Ideco E-3000	30,000	20			Under Construction
LOUISIANA - BAY MARCHARD										
Dolphin Intl	5	Jackup	10.00	5000	Ideco H-35-D	15,000	10-70		Blk 24	Workover
LOUISIANA - BAYOU SALE										
Cliffs Drlg	2	Barge	13.63	10000	M-CSCO U-1220-EB	30,000	7'6-18			Drilling
LOUISIANA - BRETON SOUND										
CRC Mallard Well	34		6.00		Hydraulic	10,000		100	Blk 29	Workover

UNITED STATES (Cont'd)

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with 4½ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		
LOUISIANA - BRETON SOUND (Contd)										
Eagle Offshore Drlg Serv	Eagle M-101	Barge	13.63	10 Kpsi	OILWELL E-3000	30,000	20	20	Blk 2	Working
Penrod Drlg	Barge 46	Barge	13.63	10000	EMSCO ECB	20,000	16	81		Drilling
Phoenix Management	Big Foot Two	Jackup	10.63	10000	Gar-Den 2100-E	25,000/5"	85	42	Blk 56	Drilling
Transworld Drlg	62	Jackup	13.63	10000	EMSCO C-3 Type II	25,000	300		Blk 40	Drilling-Phillips
LOUISIANA - CAMERON										
CRC Mallard Well	Barge 3	Barge			National 55	9,000				Workover
Noble Drlg	29	Platform	13.63	10000	Gar-Den 1500-E	20,000			Blk 334-C	Working
Resource Drlg	W M Keck Sr	Barge	13.63	5000	National 160	25,000		6		
Two R Drlg	Two R-12	Barge			National 1625-UE	25,000	12	8		Drilling
Wilson Bros	Barge A	Barge Non-Posted	13.63	5000	Ideco H-1700	16,500	12	8	Inland- Calcasieu Lake	Moving On Location
LOUISIANA - CHANDELEUR SOUND										
Cliffs Drlg	3	Barge	13.63	10000	M-CSCO U-1220-EB	30,000	7'6-18		Blk 2	Drilling
LOUISIANA - DEER ISLAND										
Penrod Drlg	Barge 44	Barge			National 1625-DE	30,000	10			Drilling
LOUISIANA - EAST CAMERON										
Booker Drlg	14	Platform	10.00	5000	Gar-Den 3000				Blk 272-A	Workover
	50	Platform	10.00	5000	Gar-Den 500				Blk 294-A	Workover
Dixilyn-Field Drlg	84	Jackup	13.63	10000	National 818-MI	20,000	250		Blk 239	Drilling
Fluor Drlg Serv	Mr Dave #61	Jackup	13.63	10000	National C-1320-UE	20,000	250	113	GOM Blk 215	Contracted-Samedan Oil
	Mr Gus II	Jackup	13.63	5000	National 160-E	25,000	150	56	GOM Blk 76	Contracted-Union Oil
Global Marine Drlg	Glomar High Island II	Jackup	13.63	10000	National 1320-UE	20,000	250		Blk 71	Conoco
Houston Offshore Intl	Sabine II	Jackup	13.63	10000	National 1320-UE	20,000	200	123	Blk 231	Drilling
	Saline I	Jackup	13.63	10000	National 1320-UE	20,000	200	20	Blk 240	Drilling
Marine Drlg	Stormdrill V	Jackup	13.63	10000	National 130	20,000	115	43	Blk 33	Drilling
Marlin Drlg	Marlin No 6	Jackup			National 1625-DE	30,000	300	180	Blk 49-3	Drilling
Pool Offshore	Rig #3	Platform			National T-45	6,000			Blk 64-A	Working-Mobil
	Rig #452	Platform	13.63	5000	Pool	8,000			Blk 336-A	Working-Tranxco
Salen Protexa Drlg	Zapofeca	Jackup	13.63	10000	M-CSCO U-1220-BE	25,000	250		Blk 118	Drilling
Service Equipment & Engrg	10	Platform	10.00		OIME 750	10,000			Blk 359	Working
	6	Platform	10.00		OIME 750	10,000			Blk 229	Working
Teledyne Movible Offshore	14	Platform			Gar-Den RE-500	7,500			Blk 321	
	19	Jackup			EMSCO MC-3	25,000		250	Blk 41	
	6	Platform			National 1320-DE	20,000			Blk 222	
LOUISIANA - EAST GOLDEN MEADOW										
Atlantic Pacific Marine	3	Barge	10.00	5000	National Ideal 110	14,000	9			Drilling
LOUISIANA - EUGENE ISLAND										
Atwood Oceanics	Vicksburg	Jackup	13.63	10000	EMSCO C-2	20,000/5"	300	70	Blk 106-1	Drilling
Bokenkamp Drlg	Rig #3	Platform	13.63	10000	OILWELL E-2000	25,000			Blk 354	Drilling
Booker Drlg	110	Platform	10.00	5000	Gar-Den 500				Blk 215-C	Workover
	120	Platform	10.00	5000	Gar-Den 500				Blk 330-A	Workover
	130	Platform	10.00	5000	Gar-Den 500				Blk 330-A	Workover
	150	Platform	10.00	5000	Gar-Den 500				Blk 276-B	Drilling
Cactus Intl	103	Platform			OILWELL 2000	25,000			Blk 257	Drilling
	104	Platform	13.63	5000	OILWELL	25,000			Blk 175	Drilling
Cliffs Drlg	4	Barge	13.63	10000	M-CSCO U-1220-EB	30,000			Blk 9	Drilling
Dolphin Intl	12	Platform	13.63	10000	Gar-Den 2100-E	25,000			Blk 108	Drilling
Global Marine Drlg	Glomar Java Sea	Drillship	18.75	10000	National 1625-DE	25,000	1500	1500	Blk 363	Arco
Huthnance Drlg	12	Platform	13.63	10000	Unit 12-20	25,000			Blk 238	Contracted-Gulf
	14	Platform	13.63	10000	Unit 12-20	25,000			Blk 341	Contracted-Chevron
Marine Drlg	J Storm XIV	Jackup	13.63	10000	National 1320	20,000	200	87	Blk 175	Drilling
Ocean Drlg & Expl	El Dorado	Submersible	13.63	5000	EMSCO EDES	25,000	70	70	Blk 24	Contract-OPCO
	Ocean Scout	Semisubmersible	13.63	10000	EMSCO C-3 Type 2	25,000	600	600	Blk 283	Contract-Transco
	Odeco Seven	Submersible	13.63	5000	Ideco E-2500	25,000	35	35	Blk 52	Drilling
Pool Offshore	Rig #8	Platform	10.00	5000	National T-45	6,000			Blk 259-B	Working-Shell
	Rig 423	Platform	13.63	5000	OIME 1000-E	12,000			Blk 392-A	Working-CNG
	140	Platform	10.00	5000	Ideco	8,000			Blk 294-A	Working-Texaco
	15	Platform			National T-45	6,000			Blk 251-A	Working-Exxon
Salen Protexa Drlg	Salenergy I	Jackup	13.63	10000	M-CSCO U-1220-EB	25,000	250	168	Blk 240	Drilling
Service Equipment & Engrg	21	Platform	13.63	1000	Ideco 2100	2,500			Blk 309	Working
Zapata Offshore	Louisiana	Submersible	13.63	5000	Unit U-1220-BE	20,000	50	22	Blk 62	Drilling-Hunt
	Zapata Explorer	Jackup	13.63	10000	OILWELL 3000-E	25,000	240	90	Blk 182	Drilling-Exxon
LOUISIANA - GARDEN BANKS										
Dual Marine Drlg	23	Platform	13.58	10000	OILWELL E-3000	25,000			Blk 236	Drilling
LOUISIANA - GRAND ISLAND										
Booker Drlg	30	Platform	10.00	5000	Gar-Den 500				Blk 76-A	Workover
	70	Platform	10.00	5000	Gar-Den 500				Blk 43-Q	Workover
Livingston Oilwell Serv	12 Workover	Platform	2.50	5000	Wilson Super	8,000/2⅞"			Blk 16	Concentric Work
	15 Workover	Platform	2.50	5000	Wilson Super 38	8,000/2⅞"			Blk 16	Workover
	3 Workover	Platform	2.50	5000	Wilson Super	8,000/2⅞"			Blk 16	Concentric Work
Penrod Drlg	63	Jackup	13.63	10000	National 1320-UE	25,000	250	26		Drilling
LOUISIANA - GREEN CANYON										
Zapata Offshore	Zapata Concord	Semisubmersible	18.75	10000	OILWELL E-3000	25,000	2000	328	Blk 184	Drilling-Conoco
	Zapata Yorktown	Semisubmersible	18.75	10000	OILWELL E-3000	25,000	2000	1097	Blk 134	Drilling-Exxon
LOUISIANA - HIGH ISLAND										
CRC Mallard Well	46		13.63		Wilson Model 65	12,500			Blk 531-B	Workover
Dolphin Intl	79	Platform	13.63	10000	EMSCO A-1000-E	25,000			Blk 315-A	En Route
Fluor Drlg Serv	Mr Sam #55	Jackup	13.63	5000	Gar-Den 1500-RE	25,000	155	47	GOM Blk 105	Contracted-Rutherford Oil
Platform Well Serv	8	Platform	10.00	5000	OIME 750	16,000/2⅞"			Gulf of Mexico	Workover
Pool Offshore	7	Platform	13.63	5000	National 110	16,000			Blk 414	Working-Houston & Min
Service Equipment & Engrg	11	Platform	13.63	5000	Ideco E-900	14,000			Blk 499	Working
Teledyne Movible Offshore	4	Platform			National 110-UE	16,000			Blk 595-A	
LOUISIANA - HONEY ISLAND										
Penrod Drlg	Barge 48	Barge	13.63	10000	National 1625-DE	30,000	20	176		Drilling
LOUISIANA - IBERIA										
CRC Mallard Well	Barge 9	Barge			Wilson Model 90	11,000				Shipyard
	Mallard 43	Platform	10.00		Wilson Model 65	14,000				Stacked
Penrod Drlg	Barge 43	Barge			National 1320-DE	25,000	12			Drilling

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with 4½ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		

UNITED STATES (Cont'd)

Contractor	Rig name or no.	Type	Size (ID)	Pressure rating	Drwwks make & model	Rated drlg depth with 4½ in. pipe	Rated	Current	Location	Status
LOUISIANA - IBERIA (Contd)										
Rebstock Drlg	4	Barge	13.63	5000	OILWELL 860	18,000	12	9	Delcambre Well No 3	Drilling
Wheless Drlg	Barge 15	Barge	12.00	5000	National 130	25,000	12	8		Completing
LOUISIANA - IBERVILLE										
Glendel Drlg	Mr Del	Barge	13.63	10000	Brewster NE-12	25,000	20	10	Perre Pound	Drilling
	Mr Glen	Barge	13.63	10000	Brewster NE-12	25,000	12	8	Bayou Sorrel	Drilling
LOUISIANA - JEFFERSON										
Noble Drlg	S-55	Semisubmersible	13.63	10000	National 1625-DE	25,000	80		Grand Isle	Working
Two R Drlg	Two-18	Barge			EMSCO C-3	25,000	12	8		Drilling
LOUISIANA - LAFOURCHE										
Livingston Oilwell Serv	20 Workover	Barge	2.50	5000	Wilson Super 38	10,000/2⅜"	10		Timbalier Bay	Concentric Work
Noble Drlg	Barge 7	Barge			National 1320-M	20,000				Working
Shank Drlg Dean	DS-3	Barge	10.00	5000	Bethlehem B-3661	25,000	12	10	Bay Trambeau	Working
Two R Drlg	Two R-14	Wilson 250			Wilson 250	25,000	20	8		Drilling
	Two R-16	Barge			EMSCO C-3	25,000	12	8		Drilling
	Two R-2	Barge			EMSCO B-3661	25,000	10	8		Drilling
Wheless Drlg	Barge 14	Barge	12.00	5000	EMSCO J-1400	18,000	12	8		Completing
LOUISIANA - LITTLE LAKE										
Atlantic Pacific Marine	4	Barge	10.00	5000	EMSCO A-1500	20,000	12			
LOUISIANA - LIVINGSTON										
Rebstock Drlg	3	Barge	10.00	5000	Gar-Den 800	13,000	12	10	S/T 8776 Well No 1	Drilling
LOUISIANA - MAIN PASS										
Booker Drlg	140	Platform	10.00	5000	Gar-Den 500				Blk 311-A	Completion
Circle Bar Drlg	Rig 2 Liberty	Barge	10.00	5000	National 160-E	25,000	15	20	Blk 41	Working
	Rig 5 Mr Mecom			10000	Ideco E-3000	30,000	15		Blk 41	Working
Livingston Oilwell Serv	11 Workover	Platform	2.50	5000	Wilson Super	8,000/2⅞"			Blk 306	Concentric Work
Loffland Bros	4	Platform	13.63	5000	M-CSCO U-1220-BE	22,000			Blk 73-A	Drilling
	74	Platform	13.63	5000	M-CSCO U-1220-BE	22,000			Blk 73	Drilling
Penrod Drlg	Barge 47	Barge			EMSCO A-1500-E	25,000	16			Drilling
Pool Offshore	Rig #14	Platform			National T-45	6,000			Blk 41-F	Working-Chevron
	Rig #17	Platform	13.63	5000	OIME 1500	16,000			Blk 306-5	Working-Marathon
	Rig #5	Platform	10.00	5000	National T-45	6,000			Blk 72-C	Working-Mobil
Service Equipment & Engrg	9	Platform	10.00		OIME 750	10,000			Blk 305	Working
Transworld Drlg	45	Submersible	10.00	5000	National 125	15,000	35		Blk 21-B	Drilling-Kerr-McGee
LOUISIANA - MISSISSIPPI										
Nordic Offshore Drlg	Havdrill 31	Drillship			National 1625-DE	20,000			Blk 148-B	Working
LOUISIANA - MISSISSIPPI CANYON										
Dolphin Intl	76	Platform	13.63		Ideco E-1700	20,000			Blk 311	Drilling
Penrod Drlg	34	Platform	13.63	10000	National 110-UE	16,500	300			Drilling
LOUISIANA - MORGAN CITY										
Cactus Intl	102	Platform	13.63	5000	EMSCO C-2	25,000				Stacked
	162	Platform	13.63	5000	EMSCO A-1500	25,000				Waiting on Platform
	163	Platform	13.63	5000	EMSCO Electro-hoist II	25,000				Stacked
Penrod Drlg	37	Platform	13.63	10000	EMSCO C-2	25,000	300			Repair
	50	Submersible	13.63	10000	EMSCO A-1500-E	25,000	50	36		Repair
Reading & Bates Drlg	OS-7	Platform	13.63	5000	National 110	18,000			Gulf of Mexico	Available
LOUISIANA - PLAQUEMINES										
Cliffs Drlg	1	Barge	13.63	10000	M-CSCO U-1220-EB	30,000	18			Drilling
CRC Mallard Well	Barge 1	Barge			Wilson Model 90	9,000				Workover
Diamond M	Rig 47	Posted Barge	13.63	5000	OILWELL E-3000	25,000	22		Gulf of Mexico	Drilling
Helmerich & Payne Intl Drlg	91	Platform	13.63	5000	OILWELL 2000	20,000			Gulf of Mexico	Drilling
Livingston Oilwell Serv	18 Workover	Barge	6.00	5000	Wilson Mogul 42	18,000/2⅞"	12			Drilling & Workover
	24		10.75	5000	Wilson Super Giant	12,000	12		America Bay	Drilling
Noble Drlg	26	Platform	13.63	10000	National 1320-UE	20,000			Blk 57-A	Working
	30	Platform	13.63	10000	Gar-Den 1500-E	20,000			W Delta Blk 117G	Working
Rebstock Drlg	2	Barge	10.00	5000	National N-80	14,000	12	8	Delacrois Well No 7-7	Drilling
Two R Drlg	Two R-10	Barge			National 1320-M	20,000	10	8		Drilling
	Two R-15	Barge			EMSCO C-3	25,000	10	7		Drilling
LOUISIANA - SABINE PASS										
Houston Offshore Intl	Nueces I	Jackup	13.63	10000	National 1320-UE	16,000	125	38	Blk 17	Drilling
Transworld Drlg	64	Jackup	13.63	10000	OILWELL E-3000	25,000	300		Blk 3	Drilling-Superior
LOUISIANA - SHIP SHOAL										
Booker Drlg	950	Platform	13.63	5000	Gar-Den 1000	10,000			Blk 295-A	Drilling
Chiles Drlg	Gulf Wind	Jackup	13.63	10000	National 1320-UE	18,000/5"	150	70		Drilling
CRC Mallard Well	Mallard 33		6.00		Hydraulic	8,000		60	Blk 133	Workover
Dolphin Intl	77	Platform	13.63	5000	EMSCO U-1220-EB	25,000			Blk 224	Drilling
Loffland Bros	17	Platform	13.63	5000	M-CSCO U-1220-EB	22,000			Blk 214K	Drilling
Marine Drlg	J Storm XII	Jackup	13.63	10000	National 1320	20,000	200	123	Blk 232	Drilling
Marlin Drlg	Marlin No 2	Platform	13.63	5000	National 1320-DE	20,000		230	Blk 198 I-12	Drilling
Ocean Drlg & Expl	Ocean Driller	Semisubmersible	13.63	5000	EMSCO C-2	25,000	600	600	Blk 111	Contract-OPCO
	Ocean Liberty	Jackup	13.63	5000	National 80	12,000	80	80	Blk 114	Contract-OPCO
	Ocean Viking	Semisubmersible	13.63	5000	EMSCO A-1500	25,000	600	600	Blk 114	Contract-OPCO
Pool Offshore	142	Platform			National 110	9,000			Blk 219-A	Working-Amoco
Salen Protexa Drlg	Salenergy V	Jackup	13.63	10000	M-CSCO U-1220-BE	25,000	250		Blk 91	Drilling
Service Equipment & Engrg	3	Platform	10.00		Cabot/Franks 1287				Blk 223	Working
	5	Platform	10.00		OIME 750	10,000			Blk 245	Working
Temple Drlg	Comanche	Jackup	13.63	10000	OILWELL E-2000	25,000	150	80	Blk 169	Drilling
Transworld Drlg	44	Submersible	10.00	5000	Ideco 1350-S	18,000	40		Blk 28-B	Working
	54	Submersible	13.63	5000	EMSCO B-3661	20,000	175		Blk 217	Drilling-Kerr-McGee
LOUISIANA - SOUTH IBERIA										
CRC Mallard Well	44	Platform	10.00		Wilson Model 65	14,000				Stacked
LOUISIANA - SOUTH MARSH ISLAND										
Bokenkamp Drlg	Rig #1	Platform	13.63	10000	OILWELL E-2000	25,000			Blk 33	Drilling
Booker Drlg	100	Platform	10.00	5000	Gar-Den 500				Blk 137-A	Workover

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with 4½ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		
UNITED STATES (Cont'd)										
LOUISIANA - SOUTH MARSH ISLAND (Contd)										
Booker Drlg	15	Platform	10.00	5000	Gar-Den 3000				Blk 61-B	Workover
	20	Platform	10.00	5000	Gar-Den 500				Blk 130-C	Completion
CRC Mallard Well	Mallard 42	Platform	10.00		Wilson Model 65	14,000			Blk 50	Workover
Global Marine Drlg	Glomar Tender II	Tender	16.75	5000	National 1625-DE	25,000			Gulf of Mexico Blk 76	Aminoil
Livingston Oilwell Serv	17 Workover (Concentric)	Platform	2.50	5000	Wilson Super 38	8,000/2⅞"			Blk 73	Concentric Work
Marlin Drlg	Marlin No 5	Platform	13.63	10000	National 1320-DE	20,000		215	Blk 136-B9	Drilling
Ocean Drlg & Expl	Ocean 66	Jackup	13.63	5000	EMSCO C-3 Type 2	25,000	120	120	Blk 288	Drilling
Offshore Co	Rig 25	Platform	13.63	5000	National 130-E	15,000		205		Working
Penrod Drlg	38	Platform	13.63	10000	National 1320-UE	25,000	300			Drilling
	54	Jackup	13.63	10000	National 1625-DE	30,000	300	83		Drilling
	83	Jackup	13.63	10000	National 1320-DE	25,000	250	28		Drilling
Pool Offshore	Rig #2	Platform	10.00	5000	National T-45	6,000			Blk 296	Working-Placid
Rowan Co	Rowan Fort Worth	Jackup	13.63	10000	National 1625	25,000			Blk 113	Drilling
Teledyne Movible Offshore	5	Platform			National 1320-D	2,000			Blk 130-D	
LOUISIANA - SOUTH PASS										
Bokenkamp Drlg	Rig #2	Platform	13.63	10000	OILWELL E-2000	25,000			Blk 77	Drilling
Cactus Intl	165	Platform	13.63	5000	EMSCO Electro-hoist II	25,000			Blk 78	Drilling
Dolphin Intl	4	Jackup	6.00	5000	Ideco H-35-D	15,000			Blk 27	Workover
Huthnance Drlg	15	Platform	13.63	5000	Unit 12-20	25,000			Blk 49-A	Contracted-Gulf
Marlin Drlg	Marlin 15	Platform	13.63	1000	National 1320-DE	20,000			Blk 148	Drilling
	Marlin 16	Platform	13.63	1000	National 1320-DE	20,000			Blk 148	Drilling
Ocean Drlg & Expl	Ocean Pride	Jackup	13.63	5000	National 110	18,000	152	152	Blk 42	Drilling
Penrod Drlg	35	Platform	13.63	10000	National 1320-UE	16,500	300	20		Drilling
Pool Offshore	453	Platform	13.63	5000	OIME 1500	16,000			Blk 89-A	Working-Marathon
Teledyne Movible Offshore	13	Platform			EMSCO WS-1	8,500			Blk 60	
	2	Submersible			National 1625-DE	25,000		70	Blk 27	
LOUISIANA - SOUTH PELTO										
Dolphin Intl	3	Jackup	6.00	5000	Ideco H-35-D	15,000			Blk 20	Workover
Mayronne	M-162	Platform	13.63	10000	National 1320-UE	20,000			Blk 1	Drilling-Amoco
Ocean Drlg & Expl	St Louis	Submersible	10.00	5000	EMSCO EDES	25,000	30	30	Blk 19	Contract-Quintana
Pool Offshore	6	Platform	10.00	5000	National T-45	7,000			Blk 65	Working-Shell
Rowan Co	Rowan Paris	Jackup	13.63	10000	National 1625	25,000			Blk 21	
Transworld Drlg	59	Jackup	13.63	5000	National 1320-UE	20,000	125		Blk 9	Drilling-Mobil
LOUISIANA - SOUTH TIMBALIER										
Dolphin Intl	10	Platform	13.63	10000	EMSCO C-3 Type II	25,000			Blk 165-E	Drilling
	8	Platform	13.63	10000	EMSCO C-3 Type II	25,000			Blk 35	Drilling
Fluor Drlg Serv	Mr Si #60	Jackup	13.63	10000	National 1625-DE	30,000	350	115	GOM Blk 195	Contracted-Gulf Oil
Marlin Drlg	Marlin 3	Jackup	13.63	1000	National 1625-DE	25,000	250	141	148-4	Drilling
Ocean Drlg & Expl	Gulftide	Jackup	13.63	10000	National 1625-DE	25,000	250	250	Blk 177	Drilling
	Ocean Chief	Jackup	13.63	5000	EMSCO A-1500	25,000	225	225	Blk 172	Drilling
	Ocean Patriot	Jackup	13.63	5000	National 1320-ME	25,000	152	152	Blk 17	Contract-OPCO
	Ocean Star	Jackup	13.63	5000	National 1320-UE	25,000	173	175	Blk 196	Contract-Tenneco
Pool Offshore	51	Jackup	10.00	5000	OIME 750	10,000	80		Blk 50	Working-Kerr-McGee
	9	Platform	13.63	5000	National T-45	6,000			Blk 161-D	Working-Amoco
Reading & Bates Drlg	Geo M Reading	Platform/Tender	20.00	5000	Ideco M-2500	20,000			Blk 161	Amoco Until 10/81
Service Equipment & Engrg	12	Platform	13.63	500	Ideco E-900	14,000			Blk 53	Working
	4	Platform	10.00		OIME 500				Blk 186	Working
	7	Platform	10.00		OIME 750	10,000			Blk 135	Working
LOUISIANA - ST BERNARD										
Blocker Drlg & Marine	Trinity Bay	Barge	13.63	10000	Ideco E-3000	30,000			S/T 7739-1	Drilling
Goldrus Marine Drlg	Goldrus Marine 2	Barge	13.63	10000	OILWELL 3000-E	30,000	20	8	Chandeleur Sound	Drilling
LOUISIANA - ST MARTIN										
Goldrus Marine Drlg	Goldrus Marine 1	Barge	13.63	10000	OILWELL 3000-E	30,000	20	8	W Mystic Bayou	Drilling
Wheless Drlg	Barge 9	Barge	12.00	5000	Ideco 2500	25,000	12	8		Drilling
LOUISIANA - ST MARY										
Atlantic Pacific Marine	8	Barge	13.63	5000	OILWELL 2000	25,000	20			
Circle Bar Drlg	Rig 7		10.00	10000	OILWELL 3000	30,000			Rabbit Island	Working
CRC Mallard Well	Barge 4	Barge			National 80	11,000			Point A	
	Barge 7	Barge			National 55	11,000				Workover
Livingston Oilwell Serv	5 Workover	Barge	6.00	5000	Wilson Mogul 42	13,000/2⅞"	10		Deer Island	Workover
Loffland Bros	Barge 153	Barge	10.00	5000	Bethlehem 1013	15,000				Drilling
LOUISIANA - TERREBONNE										
Blocker Drlg & Marine	Terrebonne Bay	Barge	13.63	5000	OIME SL-9-E	20,000	12	12	S/T 7930-1	Drilling
Circle Bar Drlg	Rig 6 Delta	Submersible	10.00	10000	OILWELL 940 Electric	18,000	35	30		Working
Livingston Oilwell Serv	14 Workover	Barge	6.00		Wilson Super 38	10,000/2⅞"	12		Lirette Field	Workover
	21 Workover	Platform	6.00	5000	National T-12	14,000/2⅜"				Available
	23 Workover	Platform	6.00	5000	Wilson Mogul 42	15,000/2⅞"				Available
	40 Workover	Platform	4.16	10000	Hydra LHD 135-T	12,000/2⅜"				
	41 Workover	Platform	4.16	10000	Hydra LHD 135-T	12,000/2⅜"				
	7 Workover	Platform	2.25	5000	Wilson Super	12,000/1"				Standby
	9 Workover (Concentric)	Platform	2.50	5000	Wilson Super	8,000/2⅞"				
Loffland Bros	Barge 143	Barge	10.00	5000	M-CSCO U-1220	22,000				Drilling
	Barge 154	Barge	10.00	5000	M-CSCO U-1220	22,000				Drilling
Merit Drlg	2	Posted Barge	13.63	10000	OILWELL E-2000	25,000	20	12	Four League Bay	Contracted
	3	Posted Barge	13.63	10000	OILWELL E-2000	25,000	20	12	Atchafalaya Bay	Contracted
Noble Drlg	Barge 4	Barge			National 160-S	25,000			Lake Barre	Working
Shank Drlg Dean	DS-2	Barge	10.00	5000	Wilson 150-2000	18,000	10	8	Orange Grove Field	Working
Two R Drlg	Two R-1	Barge			Bethlehem B-3661	25,000	10	8		Drilling
	Two R-6	Barge			EMSCO	25,000	12	8		Drilling
Wheless Drlg	Barge 5	Barge	12.00	5000	EMSCO J-1400	20,000	15	12		Moving
	Barge 8	Barge	12.00	5000	National 130	20,000	12			Repairs
LOUISIANA - VERMILION										
Booker Drlg	60	Platform	10.00	5000	Gar-Den 500				Blk 156-A	Workover

UNITED STATES (Cont'd)

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with 4½ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		
LOUISIANA - VERMILION										
Global Marine Drlg	Glomar High Island I	Jackup	13.63	10000	National 1320-UE	20,000	250	250	Blk 25	McMoran
Goldrus Marine Drlg	Goldrus Marine 3	Barge	13.63	10000	OILWELL 3000-E	30,000	20	8		Drilling
	Goldrus Marine 4	Barge	13.63	10000	OILWELL 3000-E	30,000	20	8		Drilling
Noble Drlg	Barge 3	Barge			National 1320-UE	20,000			Weeks Bay	Working
Ocean Drlg & Expl	John Hayward	Submersible	13.63	5000	EMSCO EDA	25,000	30	30	Blk 17	Drilling
	Ocean Queen	Semisubmersible	13.63	5000	EMSCO A-1500	25,000	1200	1200	Blk 76	Drilling
Penrod Drlg	82	Jackup	13.63	10000	National 1320-DE	25,000	250	250		Drilling
Phoenix Management	Big Foot One	Jackup	10.63	10000	Gar-Den 2100-E	25,000/5"	85	29	Blk 67	Drilling
Pool Offshore	425	Platform	13.63	5000	OIME 1000	16,000			Blk 380-A	Working-Texaco
	454	Platform	13.63	10000	OIME 1500	16,000			Blk 369-B	Working-Marathon
Reading & Bates Drlg	N J Guilbeau	Tender/Platform	13.63	5000	National 1320	18,000			Blk 250	Tenneco Until 10/81
	63	Platform	13.63	5000	OILWELL E-3000	25,000			Blk 226-A	McMoran 12/82
Salen Protexa Drlg	Salenergy III	Platform	13.63	10000	M-CSCO U-1220-EB	25,000			Blk 27	Drilling
	Totonaca	Jackup	13.63	10000	M-CSCO U-1220-BE	25,000	250		Blk 326	Under Construction
Teledyne Movible Offshore	18	Jackup			M-CSCO U-1220-EB	25,000		250	Blk 25	
	3	Submersible			EMSCO EDES	20,000		45	Blk 26	
Two R Drlg	17	Barge			EMSCO Model C-E-C-3	25,000	22	20	Blk 5	Drilling
Wheless Drlg	Barge 7	Barge	12.00	5000	National 130	25,000	12	10		Drilling
	11	Barge	12.00	5000	OILWELL M-3000	30,000	18	12		Drilling
LOUISIANA - WEST CAMERON										
Atlantic Pacific Marine	Ranger IV	Jackup	10.00	5000	OILWELL 660	9,000	73		Blk 28	Delivery 12-15-81
Broughton Drlg	Broughton I	Jackup	13.63	10000	OILWELL E-3000	30,000	100	65	Blk 66 E-2	Drilling-Conoco
Cactus Intl	101	Platform	13.63	5000	EMSCO Electro-hoist II	25,000			Blk 648	Drilling
Circle Bar Drlg	Rig 8				OILWELL 3000	30,000		20	Blk 10	Working
Dixilyn-Field Drlg	85	Jackup	13.63	10000	National 1320-UE		200		Blk 542	Drilling
Dolphin Intl	6	Jackup	10.00	5000	Ideco H-35-D	15,000			Blk 32	Workover
	9	Platform	13.63	10000	EMSCO C-3 Type II	25,000			Blk 294	Drilling
Dual Offshore	16	Platform	13.58	5000	National 1320-UE	25,000/5"			Blk 630	Drilling
Global Marine Drlg	Glomar High Island III	Jackup	13.63	10000	National 1320-UE	20,000	250	250	Blk 199	Arco
	Glomar High Island IV	Jackup	13.63	10000	National 1320-UE	20,000	250	250	Blk 194	Mobil
Huthnance Drlg	Acadian Spirit	Jackup	13.63	10000	EMSCO C-2	25,000	112	25		Contracted-Superior
Livingston Oilwell Serv	16 Workover	Platform	2.50	5000	Wilson Super	8,000/2⅞"			Blk 245	Concentric Work
Loffland Bros	79	Platform	13.63	5000	M-CSCO U-1220-BE	22,000			Blk 205-K	Drilling
Marine Drlg	J Storm IV	Jackup	13.63	10000	National 1625-M	25,000	250	57	Blk 205	Drilling
	J Storm IX	Jackup	13.63	10000	National 1320	20,000	195	62	Blk 317	Drilling
	J Storm XI	Jackup	13.63	10000	National 1320	20,000	200	40	Blk 161	Drilling
Ocean Drlg & Expl	Barge A	Submersible	13.63	5000	Ideco 2500	25,000	70	70	Blk 81	Drilling
	Ocean Tempest	Drillship	[illegible]	10000	National 1625-DE	25,000	600	600	Blk 607	Contract-Mesa
Penrod Drlg	51	Submersible	13.63	10000	EMSCO A-1550-E	25,000	60	35		Drilling
	55	Jackup	13.63	10000	National 1625-DE	30,000	150	35		Drilling
	68	Jackup	13.63	10000	National 1625-DE	30,000	330	57		Drilling
Pool Offshore	50-Offshore	Jackup	10.00	5000	OIME 750	10,000	80	80	Blk 71-B	Working-Superior
	52	Jackup	10.00	5000	OIME 750	10,000	80		Blk 192	Working-Shell
	458	Platform	13.63	5000	OIME 1500	16,000			Blk 464-A	Working-McNoran
Salen Protexa Drlg	Salenergy IV	Jackup	13.63	10000	M-CSCO U-1220-BE	25,000	250		Blk 49	Drilling
Teledyne Movible Offshore	10	Platform			National T-45	8,500			Blk 624	
Transworld Drlg	47	Submersible	14.00	5000	EMSCO EDA 4-60	20,000	70		Blk 107	Drilling-Superior
	65	Submersible	13.63	10000	EMSCO C-3 Type II	25,000	70		Blk 72	Drilling-Superior
	68	Submersible	13.63	10000	EMSCO C-3 Type 2	25,000	100		Blk 147	Drilling-Kerr-McGee
LOUISIANA - WEST DELTA										
Bokenkamp Drlg	Rig #4	Platform	13.63	10000	OILWELL E-2000	25,000			Blk 109	Drilling
Booker Drlg	10	Platform	10.00	5000	Gar-Den 3000				Blk 73-A	Workover
	6	Platform	2.50	5000	Gar-Den 3000				Blk 73.	Workover
	8	Platform	2.50	5000	Gar-Den 3000				Blk 73-B	Workover
	80	Platform	10.00	5000	Gar-Den 500				Blk 68-U	Workover
CRC Mallard Well	45		10.00		Wilson 65	8,000			Blk 30	Workover
Dixilyn-Field Drlg	D-F 61	Platform	13.63	5000	National 1320-UE	20,000	20000		Blk 138	Drilling
Livingston Oilwell Serv	4 Workover	Platform	2.50	5000	Wilson Super	8,000/2⅞"			Blk 30	Concentric Work
	8 Workover	Platform	2.50	5000	Wilson Super 38	8,000/2⅞"			Blk 30	Concentric Work
Ocean Drlg & Expl	Ocean Explorer	Semisubmersible	13.63	5000	EMSCO EDES	25,000	600	600	Blk 27	Drilling
Platform Well Serv	7	Platform	6.00	5000	OIME 750	16,000/2⅞"			Gulf of Mexico	Workover
Pool Offshore	455		13.63	5000	OIME 1500	16,000			Blk 30-E	Working-Shell
Zapata Offshore	Rig 8	Platform	13.63	5000	EMSCO A-1100-E	15,000		172	Blk 73	Drilling-Exxon
MISSISSIPPI - PASCAGOULA										
Chiles Drlg	Yucatan	Jackup	13.63	10000	National 1625-DE	30,000	300			Under Construction
Huthnance Drlg	Vanguard I	Jackup	13.63	10000	EMSCO U-1220-EB	25,000	300			Contracted-Gulf
NEW JERSEY - MID ATLANTIC										
Western Oceanic	Alaskan Star	Semisubmersible	16.75	10000	EMSCO Model C-3 Type	25,000	1500		Baltimore Canyon	Drilling-Exxon
RHODE ISLAND - UNDESIGNATED										
Ocean Drlg & Expl	Ocean Victory	Semisubmersible	21.25/13.63	2000/10000	EMSCO C-3 Type 2	25,000	600	600		Preparing for North Sea
TEXAS - UNDESIGNATED										
Diamond M	Barge 29	Barge	13.63	5000	OILWELL 96	20,000	10	8	Gulf of Mexico	Drilling
	Century	Semisubmersible	18.75	10000	OILWELL E-3000	30,000	600	300	Gulf of Mexico	Drilling
	New Era	Semisubmersible	18.75	10000	OILWELL E-3000	30,000	1200	350	Gulf of Mexico	Drilling
	98	Platform	13.63	5000	EMSCO A-1500-E	20,000			Gulf of Mexico	Drilling
Global Marine Drlg	Global Jackup XI	Jackup	13.63	10000	National 1320-UE	25,000	300	300	Gulf of Mexico	
	Glomar Adriatic IV	Jackup	13.63	10000	National 1625-DE	25,000	300	300		Delv 5/83
	Glomar Adriatic V	Jackup	13.63	10000	National 1625-DE	25,000	300	300		Delv 8/83
	Glomar Adriatic VI	Jackup	13.63	10000	National 1625-DE	25,000	300	300		Delv 10/83
	Glomar Adriatic VII	Jackup	13.63	10000	National 1625-DE	25,000	300	300		Delv 1/84
	Glomar Adriatic VIII	Jackup	13.63	10000	National 1625-DE	25,000	300	300		Delv 12/82
	Glomar Arctic II	Semisubmersible	18.75	15000	OILWELL E-3000	25,000				Delv 10/82
	Glomar Arctic III	Semisubmersible	18.75	15000	OILWELL E-3000	25,000	600			Delv 5/83
	Glomar Bismarck Sea	Drillship	18.75	10000	National 1625-DE	25,000				Delv 2/83
	Glomar High Island IX	Jackup	13.63	10000	National 1320	20,000	250	250		Delv 11/82
	Glomar High Island VI	Jackup	13.63	10000	National 1320-UE	20,000	250	250	Gulf of Mexico	Samedan
	Glomar High Island VII	Jackup	13.63	10000	National 1320-UE	20,000	250		Gulf of Mexico	Texaco

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with 4½ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		
UNITED STATES (Cont'd)										
TEXAS - UNDESIGNATED (Contd)										
Global Marine Drlg	Glomar High Island VIII	Jackup	13.63	10000	National 1320-UE	20,000	250	250		Delv 7/82
	Glomar High Island X	Jackup	13.63	10000	National 1320-UE	20,000	250	250		Delv 7/83
	Glomar Main Pass II	Jackup	13.63	10000	National 1625-DE	25,000	300	300		Delv 1/82
	Glomar Main Pass III	Jackup	13.63	10000	National 1625-DE	35,000	300	300		Delv 5/82
	Glomar Main Pass IV	Jackup	13.63	10000	National 1625-DE	35,000				Delv 9/82
Huthnance Drlg	Charger I	Jackup	21.25	2000	EMSCO U-1220-EB	25,000	150			Contracted-Superior
	Charger II	Jackup	13.63	10000	EMSCO U-1220-EB	25,000	150			Contracted-Superior
Keydril	Galveston Key	Jackup	13.63	10000	EMSCO C-3	25,000	300	300		Preparation for Tow to N Sea
Keyes Offshore	Keyes - 300	Jackup	13.63	10000	EMSCO 2000	20,000	300			Under Construction
	Keyes - 301	Jackup	13.63	10000	EMSCO 2000	16,000	300			Under Construction
	Keyes - 302	Jackup	13.63	10000	EMSCO 2000	20,000	300			Under Construction
	Keyes - 303	Jackup	13.63	10000	EMSCO C-II	16,000	300			Under Construction
Phoenix Management	#4	Hover Barge	10.63	10000	Gar-Den 2100-E	25,000/5"	10			Under Construction
Transworld Drlg	56	Platform	10.00	5000	EMSCO EDES	20,000				Stacked
Western Oceanic	Western Delta	Jackup	13.63	5000	National Type 80-UE	15,000	173		S/T 1064L	Contracted-McMoran
TEXAS - ARANSAS										
Dixilyn-Field Drlg	Barge 51	Barge			National 110		10			Drilling
Livingston Oilwell Serv	22	Barge	10.75	5000	Wilson Super Giant	12,000	12		TST-2 Well 1	Drilling
MGF Drlg	31	Barge	10.00	5000	OILWELL 76	12,000	10		Aransas Bay	Drilling
TEXAS - BRAZORIA										
Fluor Drlg Serv	Rig 62	Platform	13.63	10000	National 1320-UE	20,000			GOM Blk 19-A	Contracted-Shell Oil
TEXAS - BRAZOS										
Chiles Drlg	Gulfstream	Jackup	13.63	10000	National 110-UE	16,000	150	120	Blk 578	Drilling
	Platform 1	Platform	13.63	10000	National 1320-UE	20,000		125	Blk A-20	Drilling
Dixilyn-Field Drlg	DF-86	Jackup	13.63	10000	National 1320-UE	20,000	200		Blk 436	Drilling
Dual Rig 25 Ltd	25	Platform	13.58	10000	OILWELL E-3000	25,000/5"			Blk 132-A	Drilling
Marine Drlg	J Storm I	Jackup	13.63	10000	National 130	20,000	225	125	Blk A-7	Drilling
	J Storm VII	Jackup	13.63	10000	National 1625-M	25,000	377	200	Blk A-131	Drilling
	J Storm VIII	Jackup	13.63	10000	National 1320	20,000	150	121	Blk 542	Drilling
Ocean Drlg & Expl	Ocean Leader	Jackup	13.63	5000	National 130	25,000	175	175	Blk 578	Contract-Superior
Penrod Drlg	52	Jackup	13.63	10000	National 1320	25,000	250	250		Drilling
TEXAS - BROWNSVILLE										
Chiles Drlg	Seabee	Jackup	13.63	10000	National 1320-UE	20,000	250			Under Construction
Ocean Drlg & Expl	Ocean King	Jackup	13.63	10000	National 1625	25,000	300			Shipyard
TEXAS - CALHOUN										
Matagorda Drlg	3	Barge	10.00	3000	Brewster N-45	8,000	9		ST/TRK 72-W	Working
TEXAS - GALVESTON										
Marine Drlg	J Storm VI	Jackup	13.63	10000	National 1625-M	25,000	250	91	ST 392	Drilling
MGF Drlg	37	Barge	1000	5000	EMSCO GA-500	10,0000	10		Galveston Bay	Workover
Ocean Drlg & Expl	Ocean Traveler	Semisubmersible	13.63	10000	National 1625-DE	25,000	600	600		Contract-Superior
Teledyne Movible Offshore	17	Jackup			EMSCO M-C-3	25,000		250	Blk A-156	
TEXAS - GALVESTON BAY										
Atlantic Pacific Marine	1	Barge	10.00	5000	OILWELL 860	20,000	20			
TEXAS - HIGH ISLAND										
Dual Drlg	29	Platform	13.63	10000	EMSCO C-3	25,000/5"			Blk A-570	Under Construction
Huthnance Drlg	Rig No 11	Platform	13.63	5000	Unit U-12-20	25,000			Blk 343	Contracted-Exxon
Keyes Offshore	Keyes - 150	Jackup	13.63	10000	EMSCO C-1	20,000	150		Blk 10-L	Drilling
Loffland Bros	76	Platform	13.63	5000	M-CSCO U-1220-BE	22,000			Blk 582	Drilling
Marlin Drlg	Marlin #9	Platform	11.00	10000	National 610		175		Blk 270-B8	Completion Work
Mayronne	M-142	Platform	13.63	5000	Brewster N-12	18,000			Blk 280	Drilling-Exxon
	M-152	Platform	13.63	5000	Brewster N-20	18,000			Blk 193	Drilling-Exxon
Noble Drlg	28				Gar-Den 1500-E	20,000			Blk 564-B	Working
Penrod Drlg	31	Platform	13.63	10000	National 110-UE	16,500	300			Drilling
	36	Platform	13.63	10000	National 1320-UE	30,000	300	172		Drilling
	53	Jackup	13.63	10000	National 1625-DE	30,000	300	145		Drilling
	66 Mobile	Jackup	13.63	10000	National 1625-DE	30,000	210	56		Drilling
	69 Mobile	Jackup	13.63	10000	National 1625-DE	30,000	330	188		Drilling
Pool Offshore	Rig #136	Platform	13.63	5000	National 110	16,000			Blk 325-A	Working-Pennzoil
	456	Platform	13.63	5000	OIME 1500	16,000			Blk 542-A	Working-Sun Oil
	457	Platform	13.63	5000	National 110	12,000			Blk 568-A	Working-Marathon
Reading & Bates Drlg	Leo M Clark	Platform/Tender	20.00	5000	National 110-M	18,000			Blk 270	Contracted-Tenneco
	Rig 40	Platform	13.63	5000	National 1625	18,000			Blk 567-A	Mesa Until 8/82
Zapata Offshore	Intrepid	Jackup	13.63	10000	Unit U-1220-B	20,000/5"	300	135	Blk 138	Drilling-Conoco
	Vinegarroon	Jackup	13.63	10000	OILWELL 96	15,000	130	32	Blk 38	Drilling-Placid Oil
	29	Platform	13.63	10000	OILWELL E-2000	20,000		164	Blk 446	Drilling-McMoran
TEXAS - KENEDY										
Matagorda Drlg	Barge 2	Barge	10.00	3000	EMSCO D-2	9,500	9		ST/TRK 166-W1	
TEXAS - MATAGORDA										
Atlantic Pacific Marine	Gulf Commander	Jackup	13.63	5000	EMSCO A-800-WE	14,000	100		Blk 624	
	Ranger III	Jackup	10.00	5000	Gar-Den DW 500-R	9,000	70		Blk 660-L	
Broughton Drlg	Broughton II	Jackup	13.63	10000	OILWELL E-3000	30,000	100	62	Blk 625-L	Drilling-Texas Gas
CRC Mallard Well	Barge 5	Barge			National 80-B	11,000				Drilling
Keyes Offshore	Keyes - 250	Jackup	13.63	10000	EMSCO 2000	20,000	250		Blk 520	Drilling
Matagorda Drlg	5	Barge	10.00	3000	National T-45	9,500	16	14	ST/TRK 85-1	Working
	7	Barge	6.00	5000	National T-20	6,000	10		ST/TRK 4-A	Working
Teledyne Movible Offshore	16	Jackup			EMSCO C-3	25,000		250	Blk 600	
Western Oceanic	Western Triton II	Jackup	13.63	10000	National 1320	20,000	250			Contracted-McMoran
Zapata Offshore	Endeavour	Jackup	13.63	10000	EMSCO CE-3000-E	20,000	215	55	Blk 629-L	Drilling
TEXAS - MATAGORDA ISLAND										
Dixilyn-Field Drlg	80	Jackup	13.63	10000	National 1320-DE	20,000	370		Blk 558	Drilling
Global Marine Drlg	Glomar High Island V	Jackup	13.63	10000	National 1320-UE	20,000	250	250	Blk 680	Pennzoil
Loffland Bros	75	Platform	13.63	5000	M-CSCO U-1220-BE	22,000			Blk 686	Drilling
TEXAS - MUSTANG										
Transworld Drlg	50	Jackup	10.00	5000	National 55	12,000	70		S/T 926-S #1	Drilling-Mitchell Energy
TEXAS - MUSTANG ISLAND										
Dixilyn-Field Drlg	60	Platform	13.63	5000	National 110	16,000	15000		Blk 755	Drilling
Marine Drlg	J Storm X	Jackup	13.63	10000	National 1320	20,000	250	54	Blk 840	Drilling

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with 4½ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		
UNITED STATES (Cont'd)										
TEXAS - MUSTANG ISLAND (Contd)										
Moran Drlg	M	Jackup	13.63	10000	EMSCO C2	23,000	250	50	Blk 772-L	Drilling
Penrod Drlg	60	Jackup	13.63	10000	EMSCO C-3	30,000	330	214		Drilling
Reading & Bates Drlg	Randolph Yost	Jackup	13.63	10000	OILWELL E-3000	20,000	300		Blk 792-L	Conoco Until 10/82
	Rig 50	Platform	13.63	5000	National 1320	18,000			Blk 85-A	Contracted-Conoco Until 1/82
TEXAS - NORTH PADRE ISLAND										
Loffland Bros	78	Platform	13.63	5000	M-CSCO U-1220-BE	22,000			Blk A-42	Drilling
Western Oceanic	Western Triton III	Jackup	13.63	10000	EMSCO C-2	20,000	250			Contracted-CNG
TEXAS - NUECES										
Dixilyn-Field Drlg	50	Barge			National 130	25,000	8			Completing
Matagorda Drlg	Barge 4	Barge	10.00	3000	National 610	12,000	8		ST/TRK 197-1	Working
TEXAS - ORANGE										
Dixilyn-Field Drlg	DF-87	Jackup	13.63	10000	National 1320-UE	25,000	300			Available
Merit Drlg	5	Posted Barge	13.63	10000	OILWELL E-2000	25,000	20	12		Under Construction
TEXAS - PADRE ISLAND										
Penrod Drlg	61	Jackup	13.63	10000	EMSCO C-3	30,000	340	182		Drilling
TEXAS - SABINE PASS										
Global Marine Drlg	Glomar Tender I	Tender	13.63	5000	National 1625-DE	25,000		600	Gulf of Mexico Blk 13	Tenneco
Keyes Offshore	Keyes - 200	Jackup	13.63	10000	EMSCO 2000	20,000	200		Blk 10	Drilling
Marlin Drlg	Marlin #10	Platform	11.00	10000	National 610				Blk 13-A2	Completion Work
	Marlin No 1 Tender Type	Platform	13.63	5000	National 1320-DE	20,000		185	Blk 11-A3	Drilling
	Marlin 14	Jackup	13.63	1000	National 1625-DE	25,000	150	28	Blk 3	Drilling
Pool Offshore	80	Platform	13.63	5000	Ideco 2000	20,000			Blk 10-A	Working-Shell
Temple Drlg	Apache	Jackup	13.63	10000	OILWELL E-3000	30,000	55	42	Blk 9	Drilling
TEXAS - SHIP WRECK										
Marine Drlg	J Storm III	Jackup	13.63	10000	National 1625-M	25,000	250	26	Blk 173S	Drilling
TEXAS - SOUTH PADRE ISLAND										
Western Oceanic	Western Triton IV	Jackup	13.63	10000	EMSCO C-2	20,000	250			Contracted-McMoran
TEXAS - SOUTH PASS										
Dual Drlg	39	Platform	13.63	10000	OILWELL E-3000	25,000			Blk 89	Under Construction
	24	Platform	13.58	10000	OILWELL E-2000	25,000/5"			Blk 57	Drilling
	12	Platform	13.58	10000	EMSCO C-2	25,000/5"			Blk 89	Drilling
TEXAS - WILLACY										
Matagorda Drlg	6	Barge	10.00	3000	EMSCO GC-500	12,000	10		ST/TRK 386-1	Working
VIRGINIA - UNDESIGNATED										
Associated Marine Serv	Heron	Drillship			Howard-Turner	1,500/3½"	700	600		Ready to Move to FL
WASHINGTON - KING										
Associated Marine Serv	La Ciencia	Drillship			Howard-Turner	1,500/3½"	600	600		Stacked

RIG LOCATOR

For an additional copy of this Rig Locator, as a separately bound unit, check No: **175** on the Reader Service card.

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AUCTION / PRIVATE SALE

INN OF THE GOLDEN WEST
ODESSA, TEXAS
OCTOBER 22 & 23
10:00 A.M.

CACTUS DRILLING CORPORATION IS PARTIALLY LIQUIDATING ITS DRILLING EQUIPMENT AND HAS COMMISSIONED NELSON INTERNATIONAL TO SELL FIVE COMPLETE RIGS, FOUR PARTIAL RIGS AND OTHER SURPLUS EQUIPMENT. THE PUBLIC AUCTION WILL BE CONDUCTED BY USE OF COLOR SLIDES AND THE EQUIPMENT WILL BE SOLD WITHOUT MINIMUM OR RESERVATION.

RIG 5–NATIONAL 75 Drawworks, 750 HP w/2-CAT D-379 Diesel Engines, BETHLEHEM G-65 & NATIONAL C-250 Duplex Pumps. (Near Moab, Utah)
RIG 24–NATIONAL 75 Drawworks, 500 HP w/3-CAT D-353E Diesel Engines, BETHLEHEM G-65 & NATIONAL C-350 Duplex Pumps. (Near Big Spring, Texas)
RIG 15–BETHLEHEM MC-650 Drawworks, 800 HP w/3-CAT D-353 Diesel Engines, BETHLEHEM G-65 & NATIONAL C-350 Duplex Pumps. (Near Hobbs, N.M.)
RIG 10–BETHLEHEM M-58 Drawworks, 700 HP w/2-CAT D-353 Diesel Engines, CONTINENTAL-EMSCO D500 & D300 Duplex Pumps. (Near Artesia, N.M.)
RIG 52–IDECO Hydrair H-35 Drawworks, 400 HP w/2-GM 6-71 Diesel Engines, CONTINENTAL-EMSCO D8550 Duplex Pumps. (Near Seminole, Texas)

Rigs 5, 10, 15 And 24 Are Offered For Private Sale Now! Any Of The Four Remaining Will Be Sold In The Auction.
Rig 52 Is Offered For Private Sale Only And Will Not Be Included In The Auction. Anyone Interested In These Rigs Should Contact Bill Archer At A/C: 214/561-1150.

4 PARTIAL RIGS (Public Auction Only):
3 Rigs With NATIONAL Drawworks And Related Equipment Too Numerous To List.
SALE INCLUDES:
Drawworks, Brakes, Compounds, Engines, Substructures, Crown Blocks, Pumps, Bops, Travelling Equipment, Rotary Tables, Drill Collars & Pipe And Related Equipment Too Numerous To List.

TxE-012-0111-JIM SHORT

Write/Call for Descriptive Brochure

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Circle 311 on Reader Service Card

Contractor	Rig name or no.	Type	BOP Stack		Drwwks make & model	Rated drlg depth with 4½ in. pipe	Water Depth		Location	Status
			Size (ID)	Pressure rating			Rated	Current		
WEST INDIES										
TRINIDAD										
Pool Santana	Rig #418-Offshore	Platform	10.00	5000	OIME	6,000			Galeota Point	Working
Skinmar Marine Operations	Skinmar 4	Platform	13.63	5000	OILWELL 840-E	16,000			East Coast	Drilling
	Skinmar II	Platform	13.63	5000	OILWELL E-2000	20,000	185			Stacked
	Skinmar III	Platform	13.63	5000	OILWELL E-2000	20,000	185	180		Stacked
	Skinmar I	Platform	13.63	10000	OILWELL E-2000	20,000	185		East Coast	Drilling
	Skinmar 5	Platform	13.63	5000	OILWELL 760	12,000			Gulf of Paria	Rigging Up
Well Services	10				National C-125	14,000				Stacked
	6	Platform	13.63	6000	National 80-B	12,000		80	Soldado	Working
	7	Platform	13.63	6000	Brewster 4210	8,000	85	80		Stacked
Zapata Offshore	Zapata Lexington	Semisubmersible	18.75	10000	OILWELL E-3000	25,000	2000	380		Drilling-Mobil